

FIG. 1A

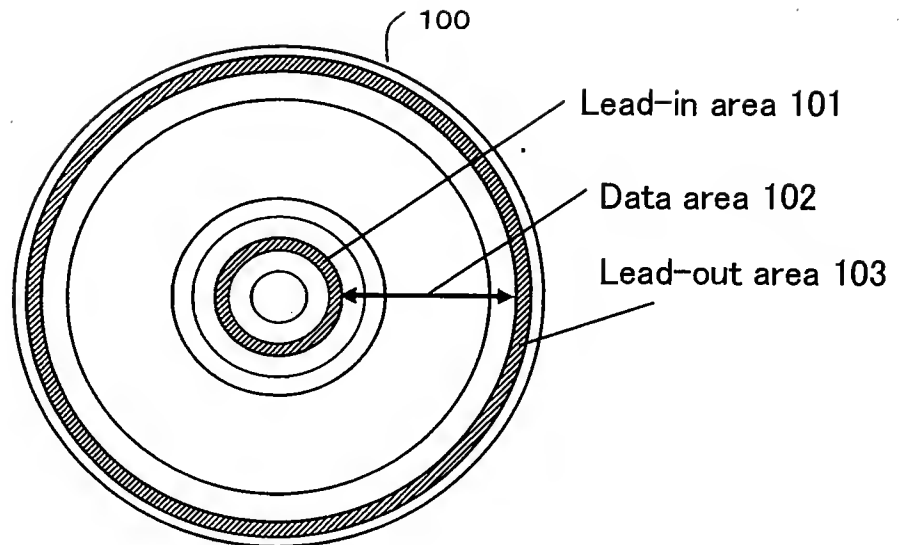


FIG. 1B

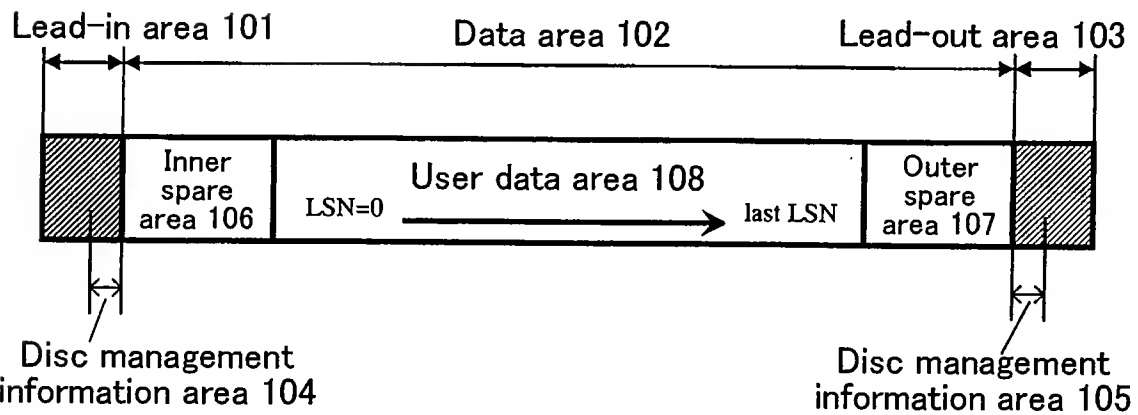


FIG. 1C

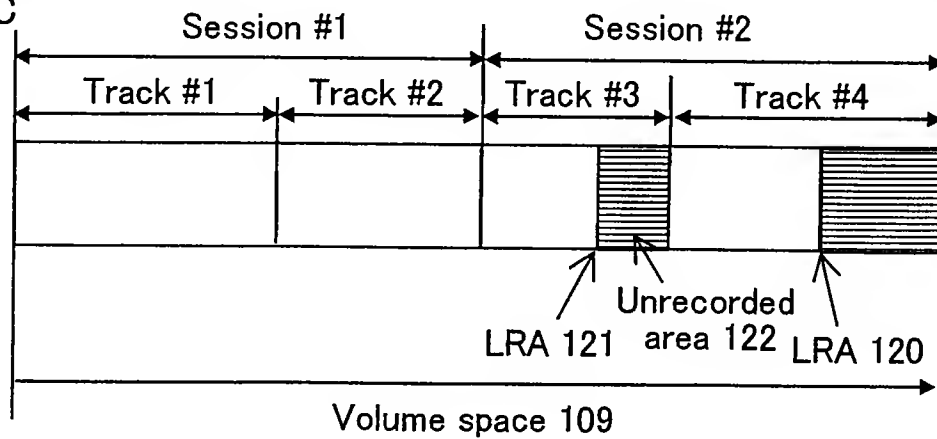


FIG. 2A

Session management information 200

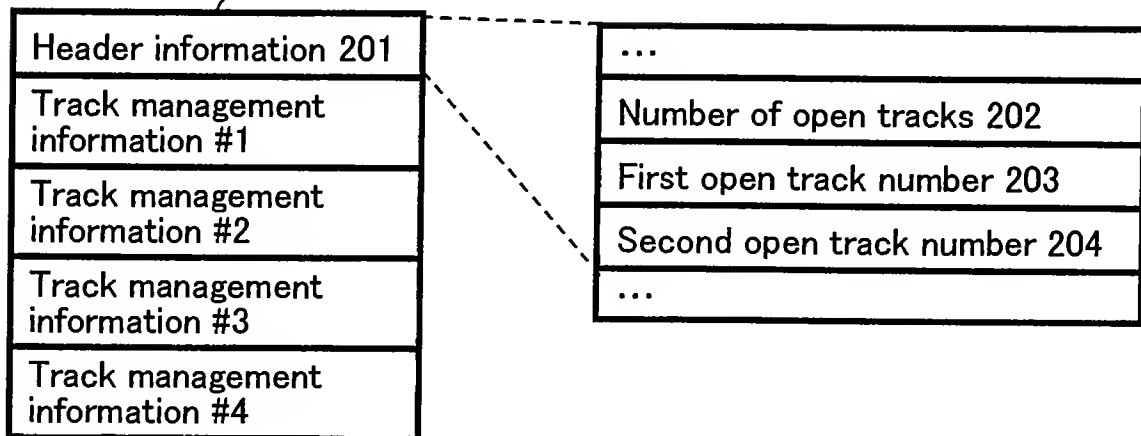


FIG. 2B

Track management information 210

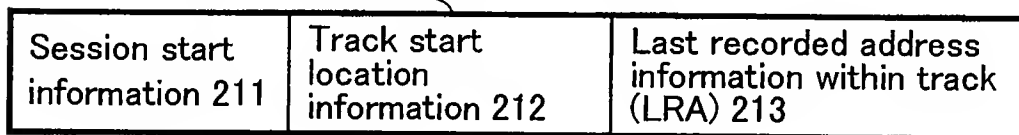


FIG. 2C

Space bitmap management information 220

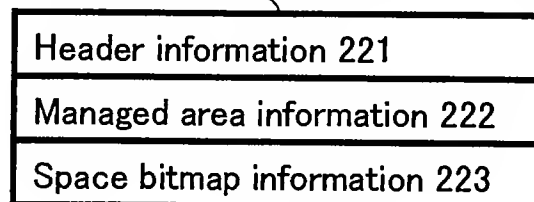


FIG.3

Disc structure information 1100

General information 1101
Replacement management information list location information 1102
User area start location information 1103
User area end location information 1104
Spare area information 1105
Recording mode information 1106
Last recorded address information 1107
Disc management information area information 1107b
Spare area management information 1108
Session management information location information 1109
Space bitmap management information location information 1110

FIG.4

100b

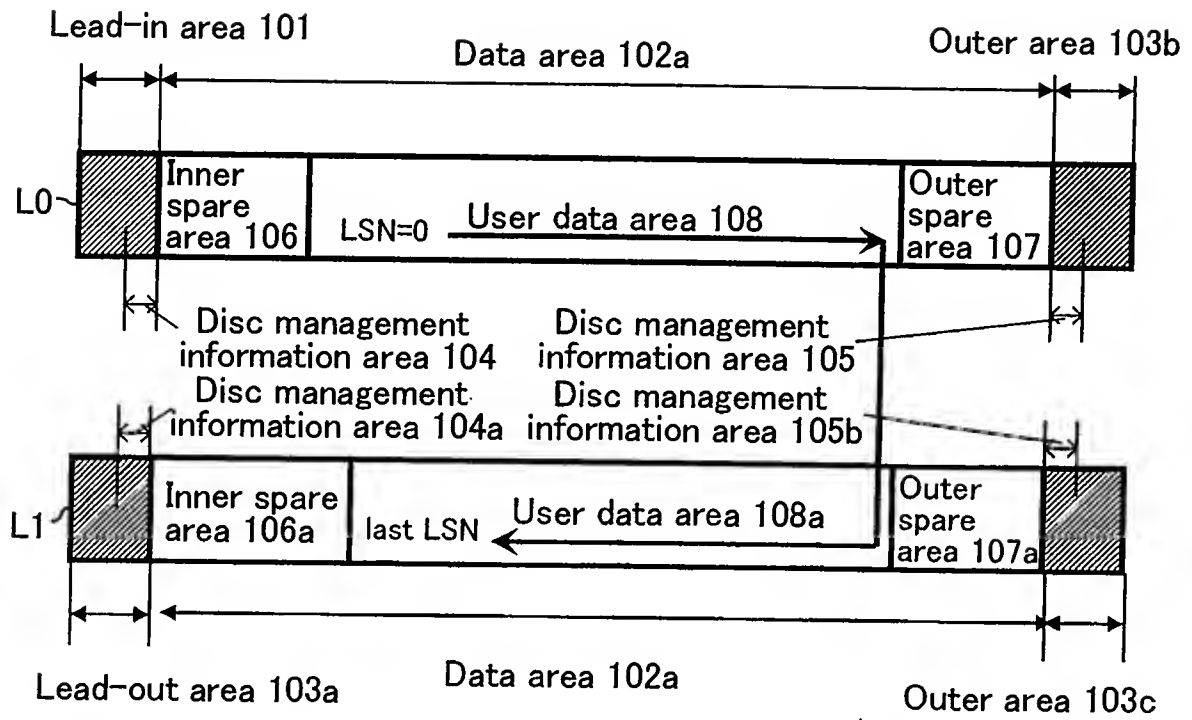
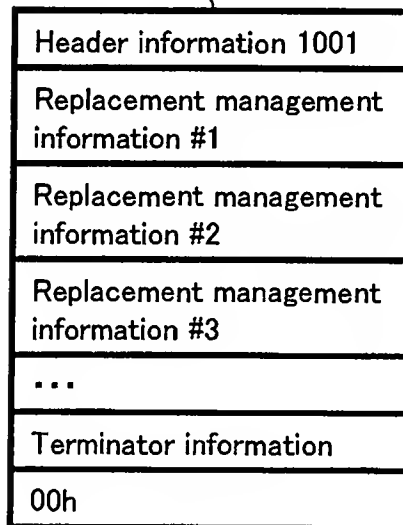


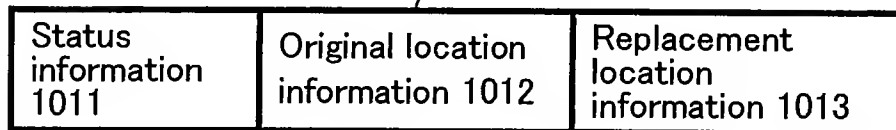
FIG.5A

Replacement management
information list 1000

Header information 1001
Replacement management information #1
Replacement management information #2
Replacement management information #3
...
Terminator information
00h

FIG.5B

Replacement management information 1010



Status information 1011	Original location information 1012	Replacement location information 1013
-------------------------	------------------------------------	---------------------------------------

FIG.6

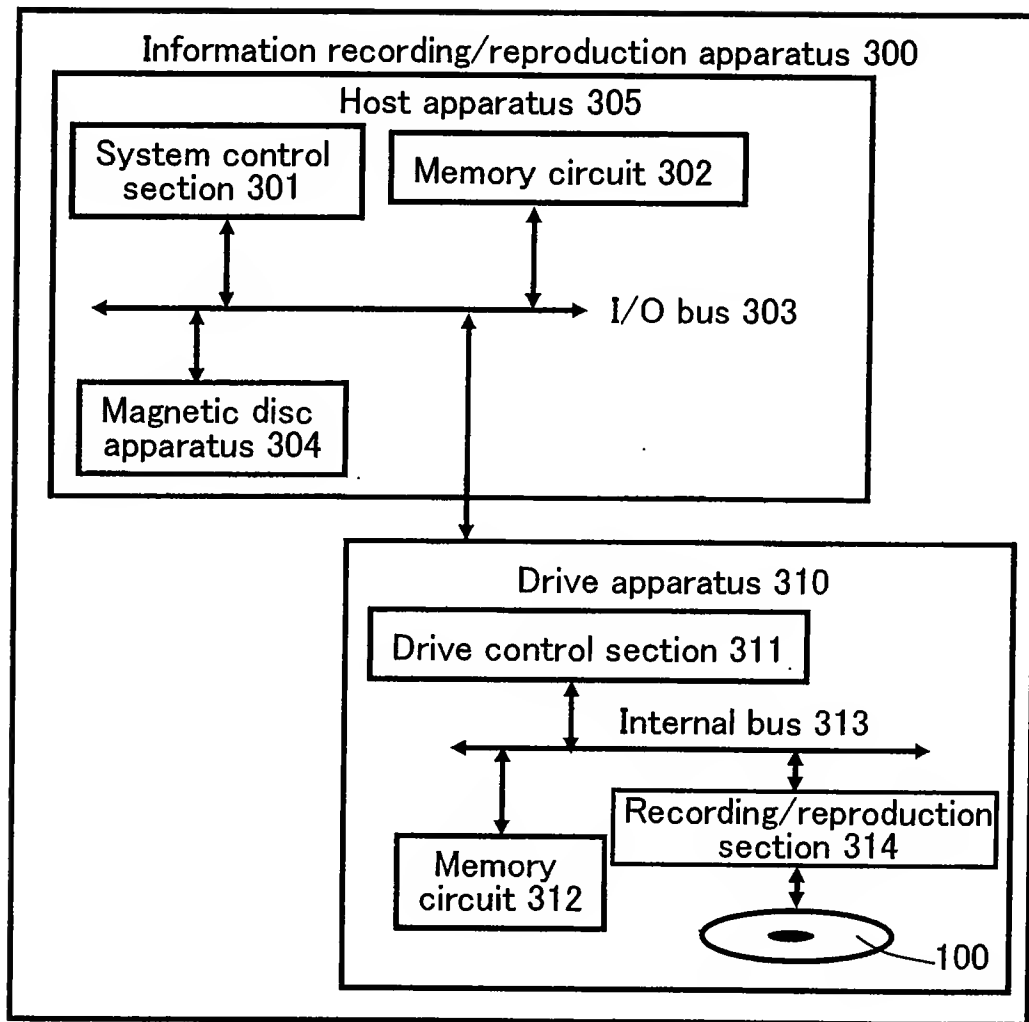


FIG.7

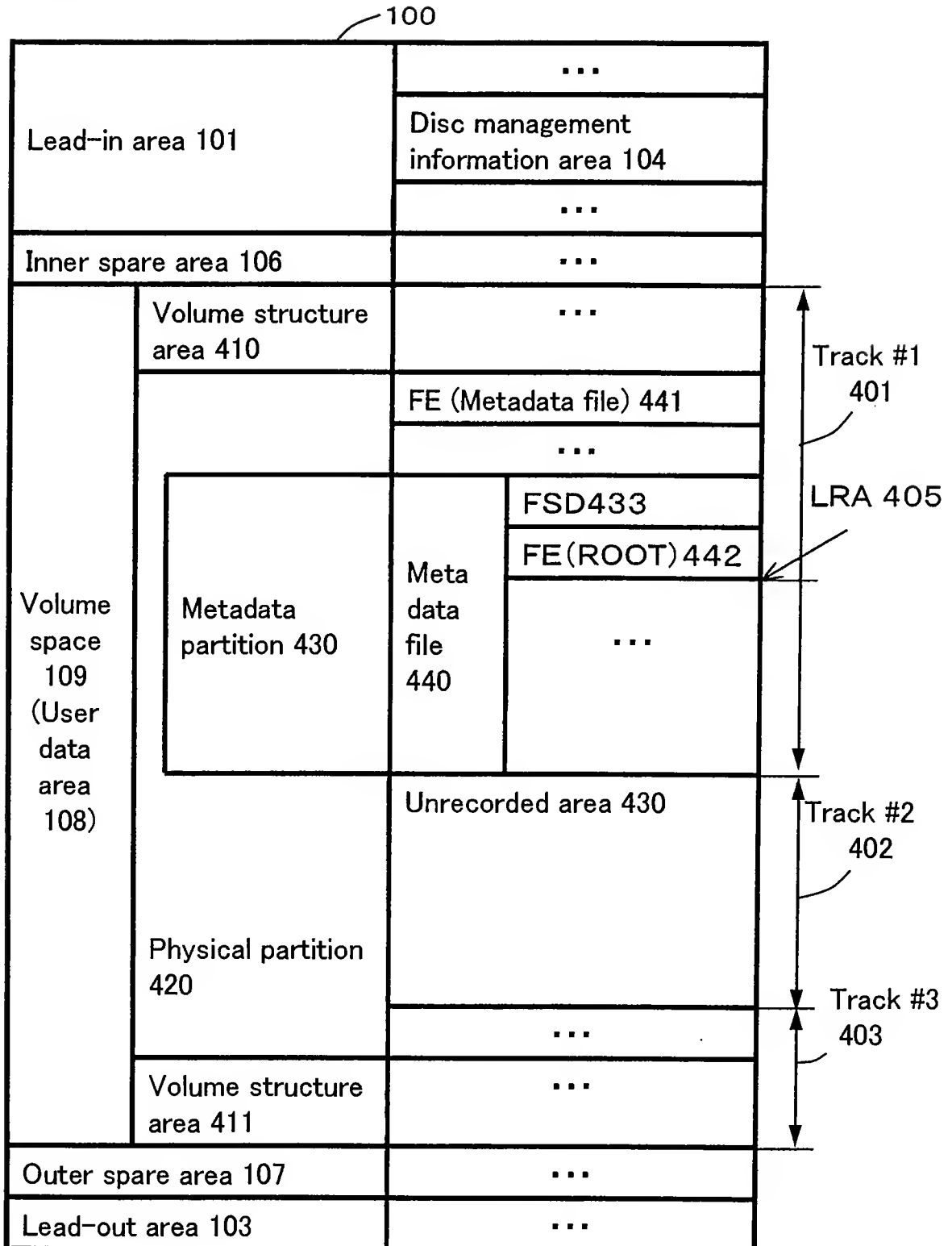


FIG.8A

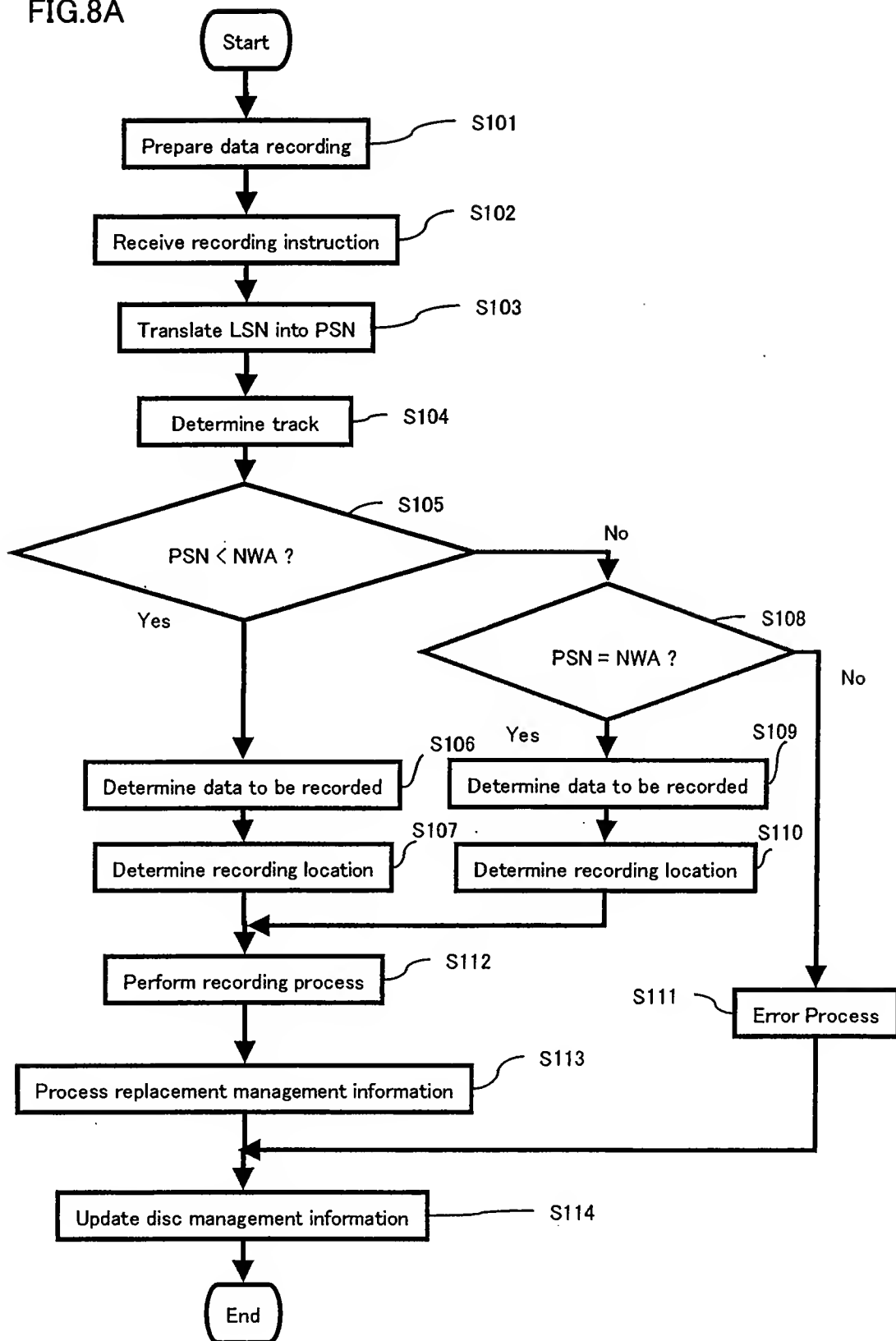


FIG.8B

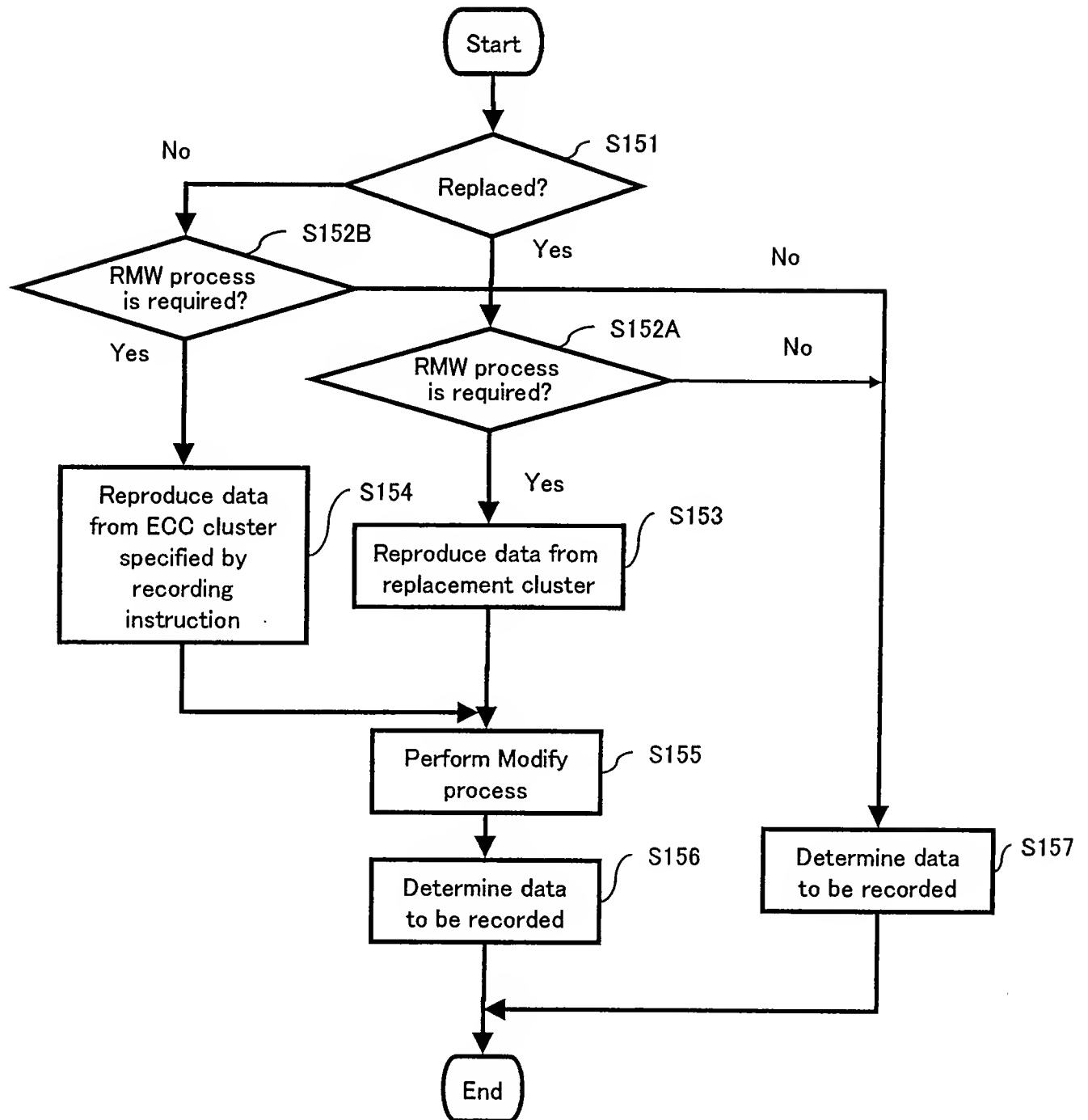


FIG.9

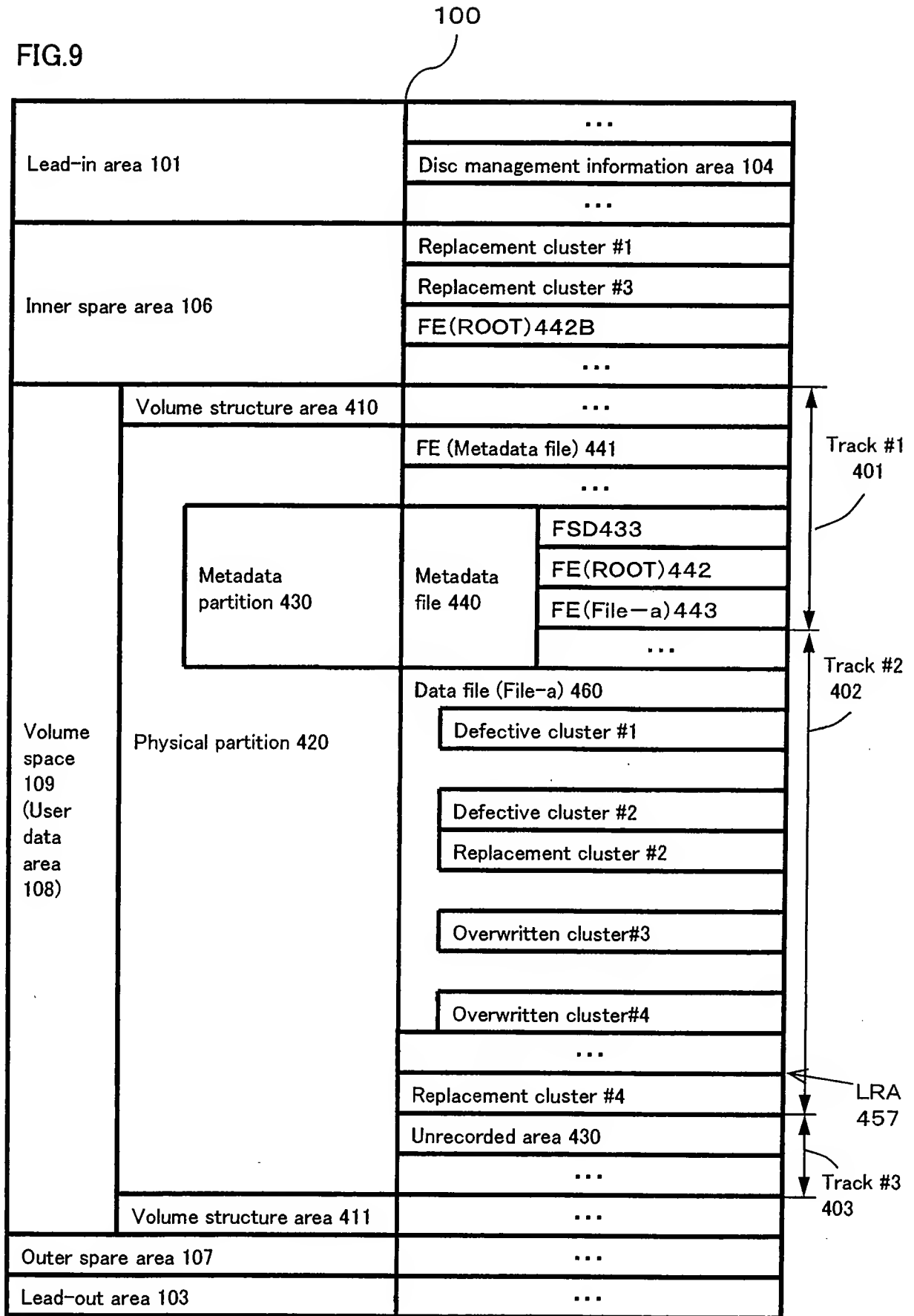


FIG.10

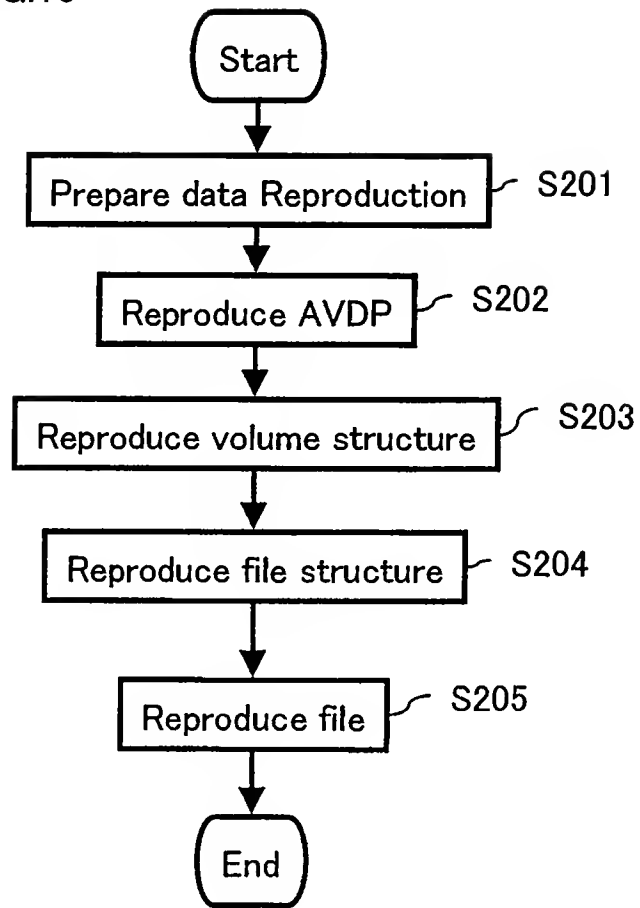


FIG.11

Replacement management information 1010B

Status information 1011			Original location information 1012	Replacement location information 1013	Type
Flag1	Flag2	Flag3			
0	0	00	Defective cluster or Overwritten cluster location information	Replacement cluster location information (in Spare area)	(1)
0	0	01	Defective clusters or Overwritten clusters start location information	Replacement cluster start location information (in Spare area)	(2)
0	0	10	Defective clusters or Overwritten clusters end location information	Replacement cluster end location information (in Spare area)	(3)
0	1	00	Defective cluster or Overwritten cluster location information	Replacement cluster location information (in User data area)	(4)
0	1	01	Defective clusters or Overwritten clusters start location information	Replacement cluster start location information (in User data area)	(5)
0	1	10	Defective clusters or Overwritten clusters end location information	Replacement cluster end location information (in User data area)	(6)
1	0	00	Defective cluster location information	—	(7)

Flag1

For replacement: 0

For defect: 1

Flag2

Replace in Spare area or no replacement cluster: 0

Replace in User data area: 1

Flag3

Single cluster : 00

Contiguous clusters (start location) : 01

Contiguous clusters (end location) : 10

FIG. 12

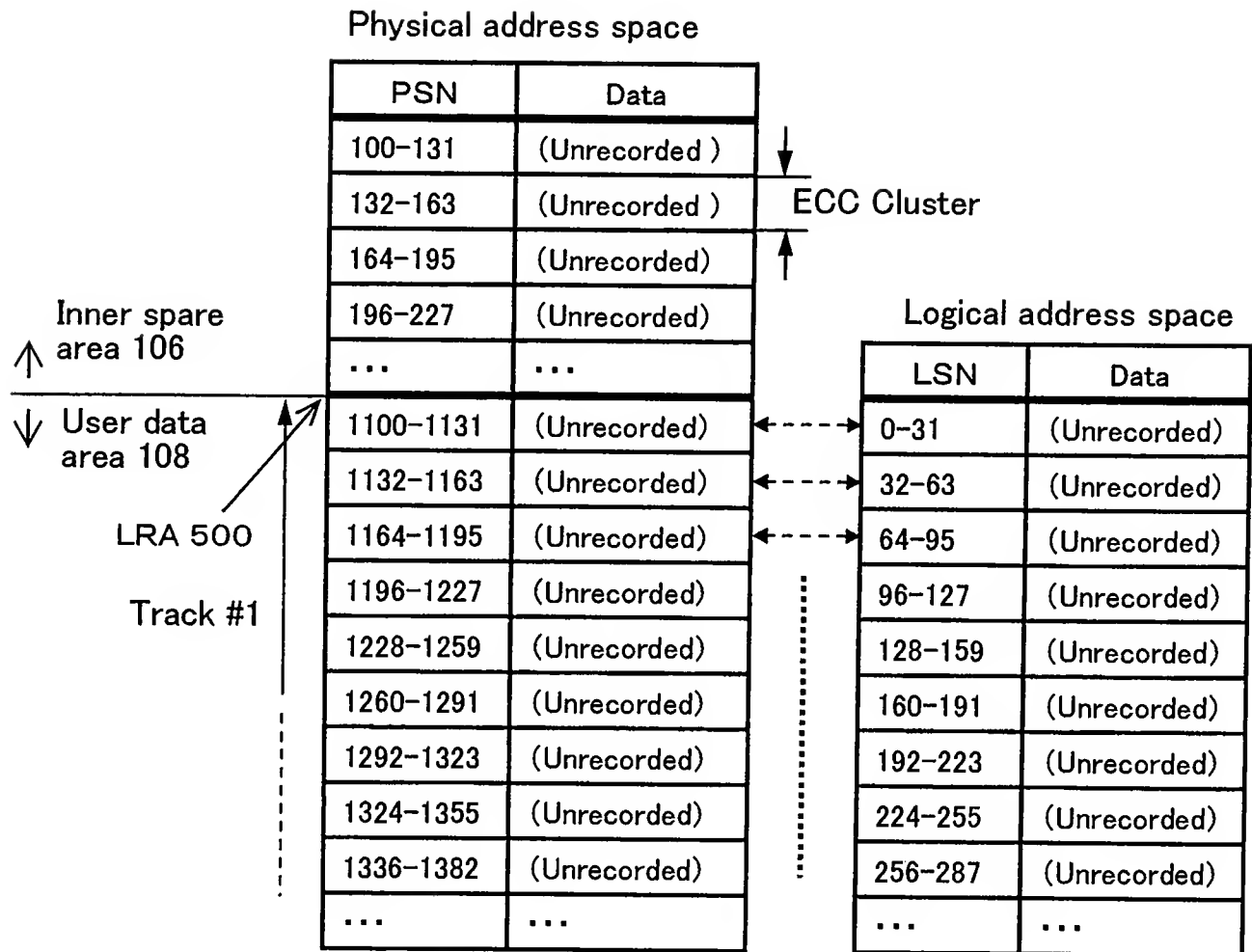


FIG. 13A

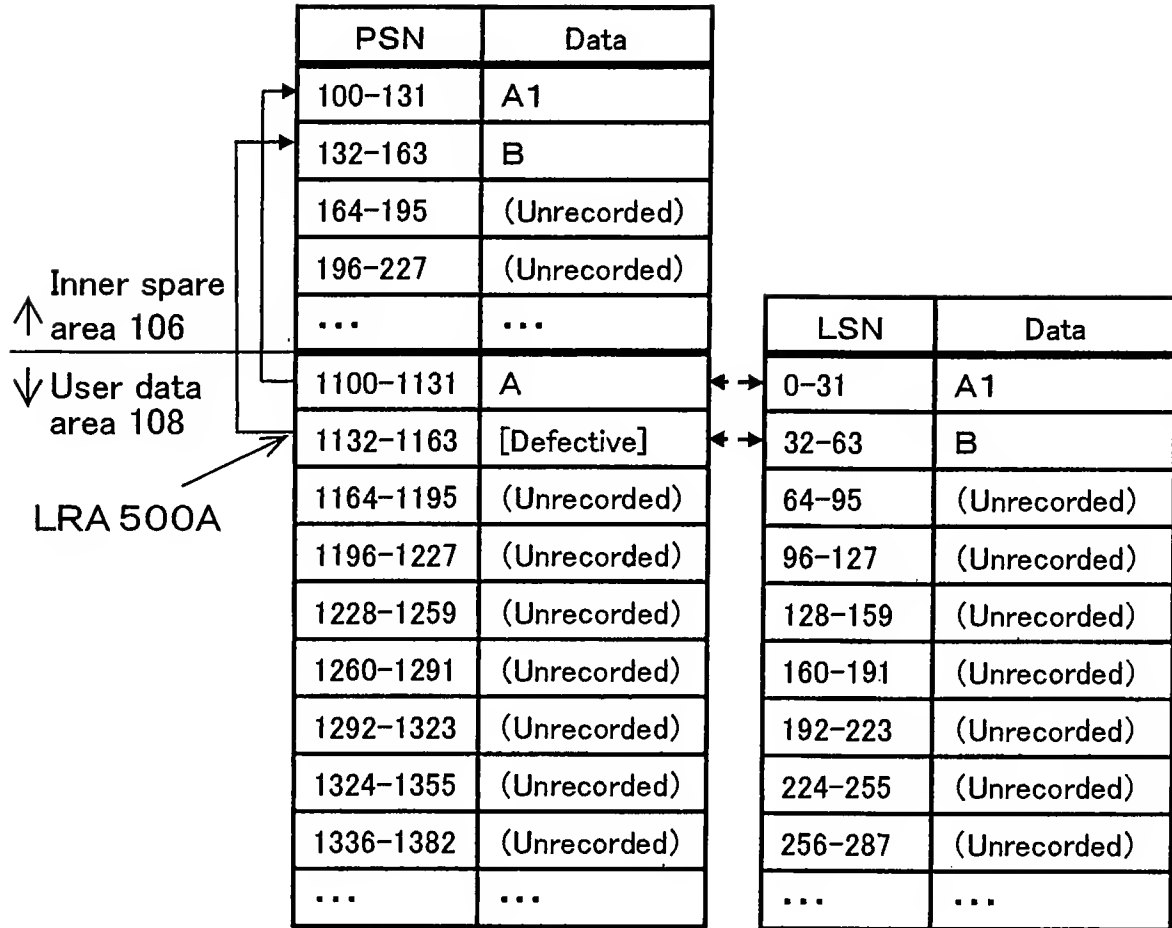


FIG. 13B

1000A

Status information			Original location	Replacement location
0	0	00	1100	100
0	0	00	1132	132

511

512

FIG. 14A

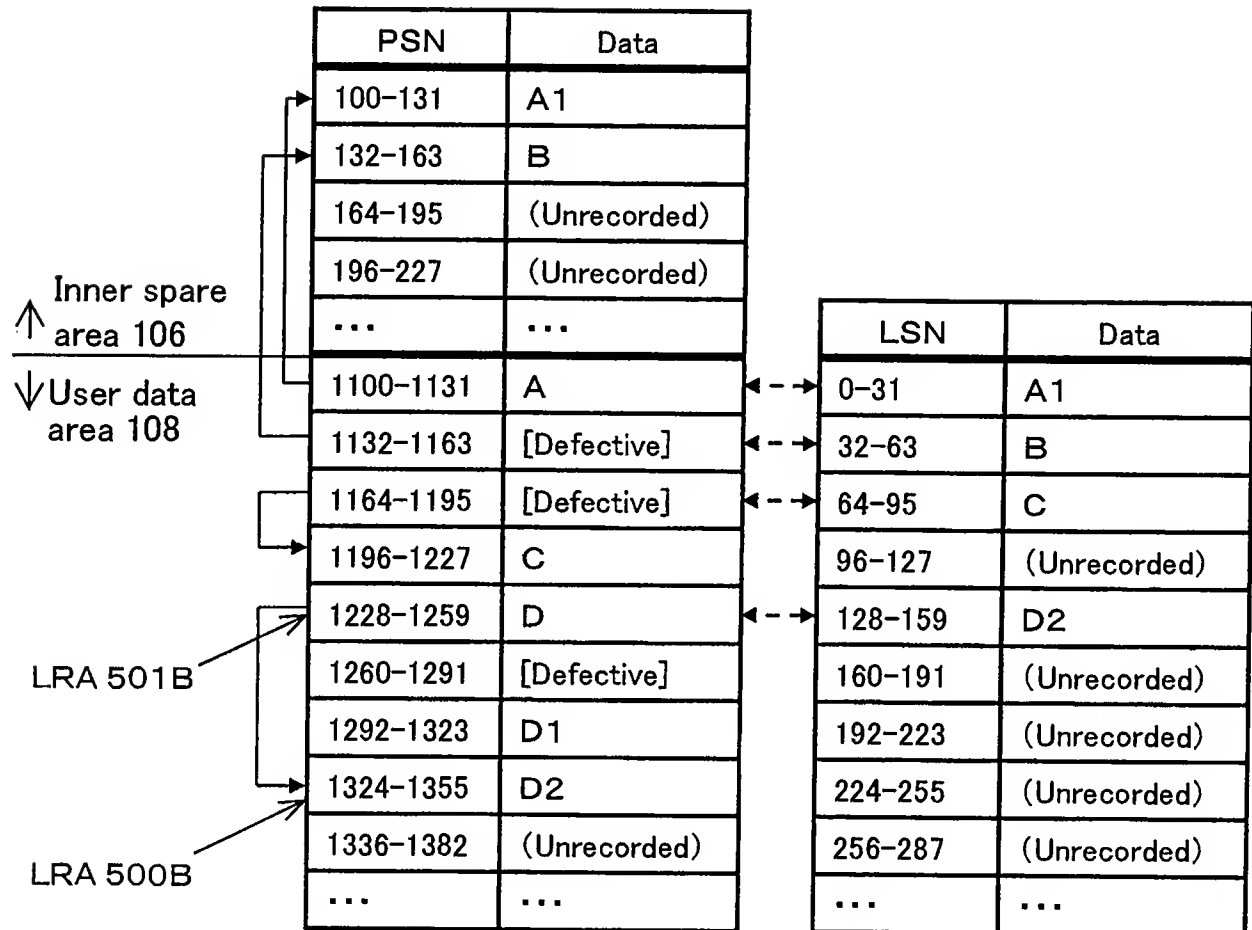


FIG. 14B

1000B

Status information			Original location	Replacement location
0	0	00	1100	100
0	0	00	1132	132
0	1	00	1164	1196
0	1	00	1228	1292
0	1	00	1228	1324
1	0	00	1260	0

Labels on the right indicate the mapping from PSN to LSN:

- 511 (points to PSN 1100)
- 512 (points to PSN 1132)
- 513 (points to PSN 1164)
- 514 (points to PSN 1228)
- 514A (points to PSN 1228)
- 515 (points to PSN 1260)

FIG. 15A

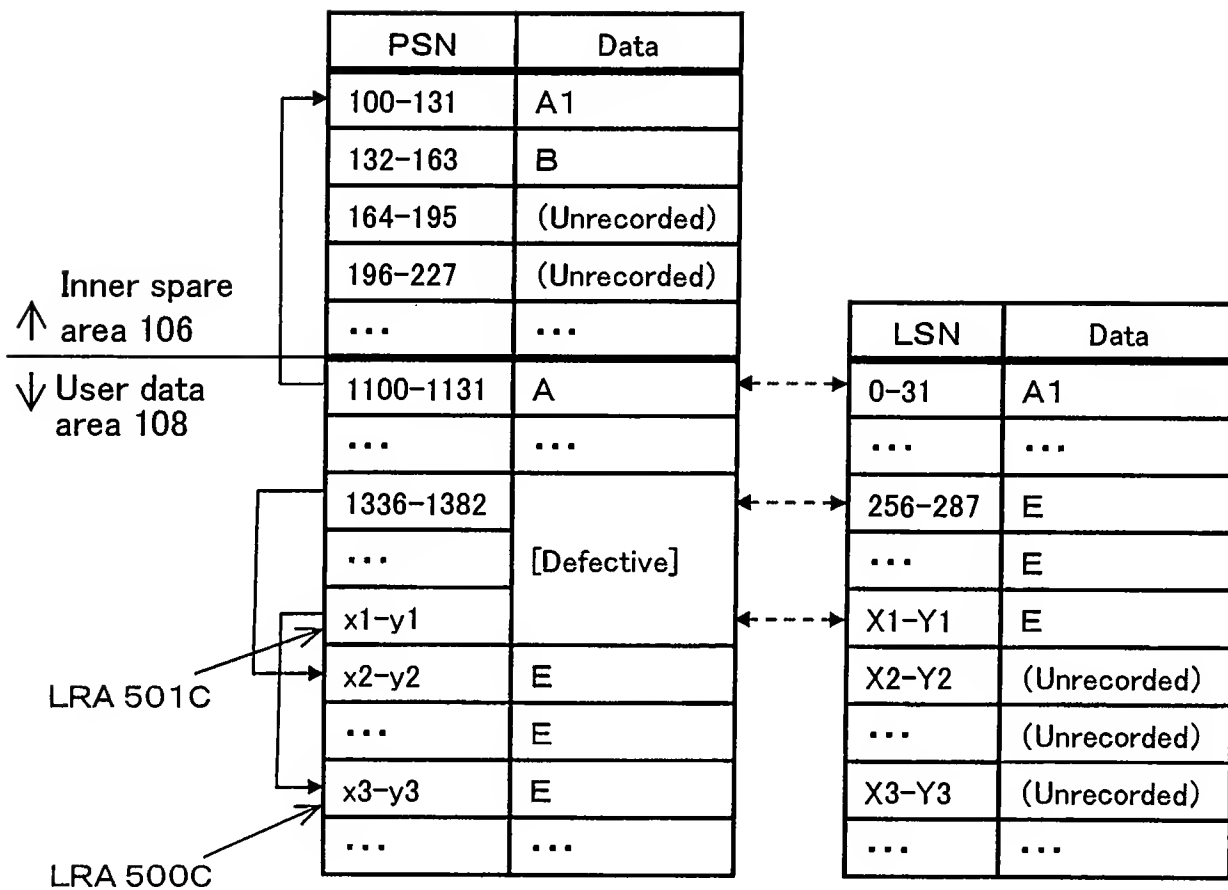


FIG. 15B

Status information			Original location	Replacement location
0	0	00	1100	100
0	0	00	1132	132
0	1	00	1164	1196
0	1	00	1228	1324
0	1	01	1336	x2
0	1	10	x1	x3
1	0	00	1260	0

FIG. 16A

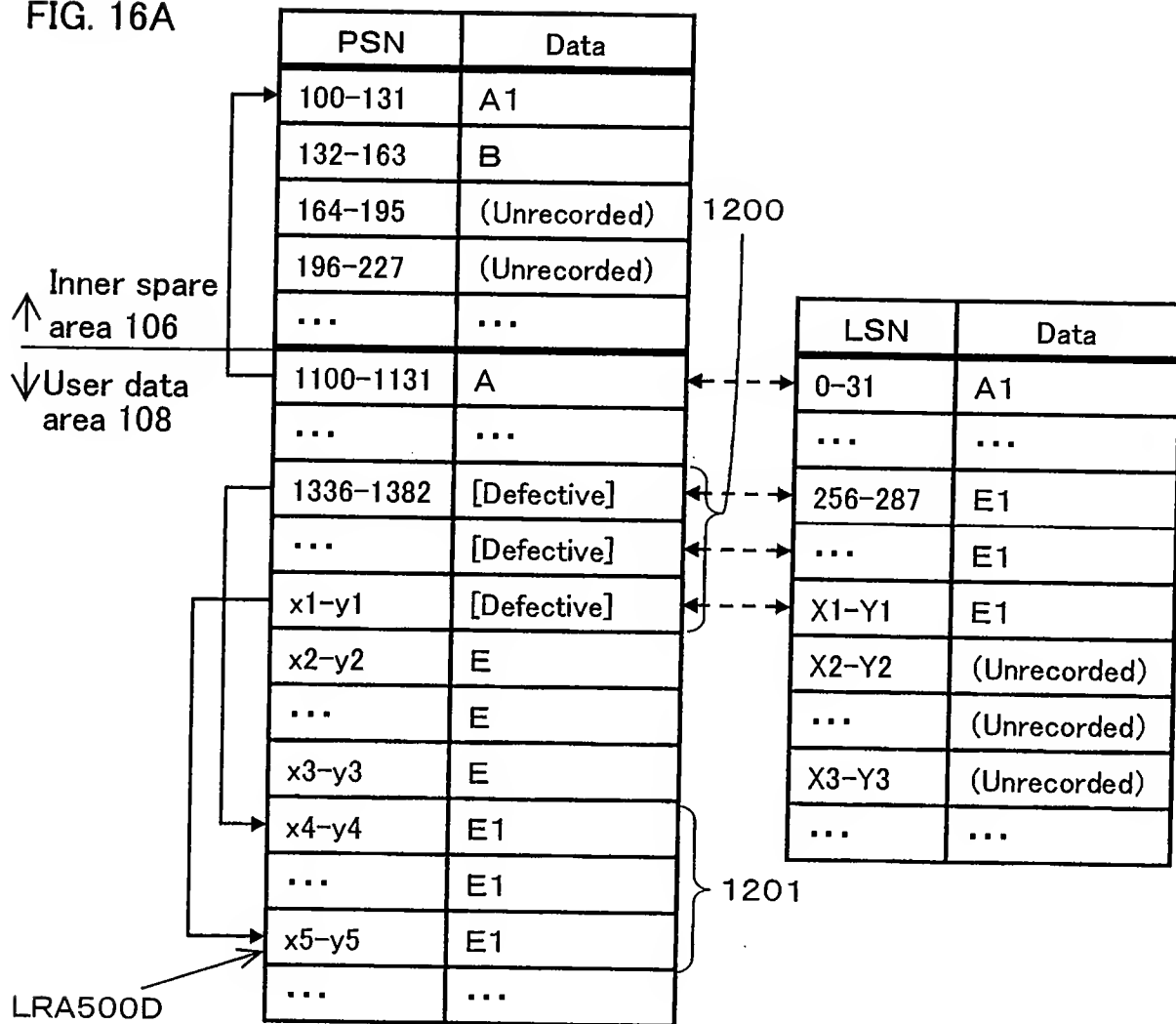


FIG. 16B

1000D

Status information			Original location	Replacement location
0	0	00	1100	100
0	0	00	1132	132
0	1	00	1164	1196
0	1	00	1228	1324
0	1	01	1336	x2
0	1	10	x1	x3
0	1	01	1336	x4
0	1	10	x1	x5
1	0	00	1260	0

511
512
513
514A
516
517
516A
517A
515

FIG. 17A

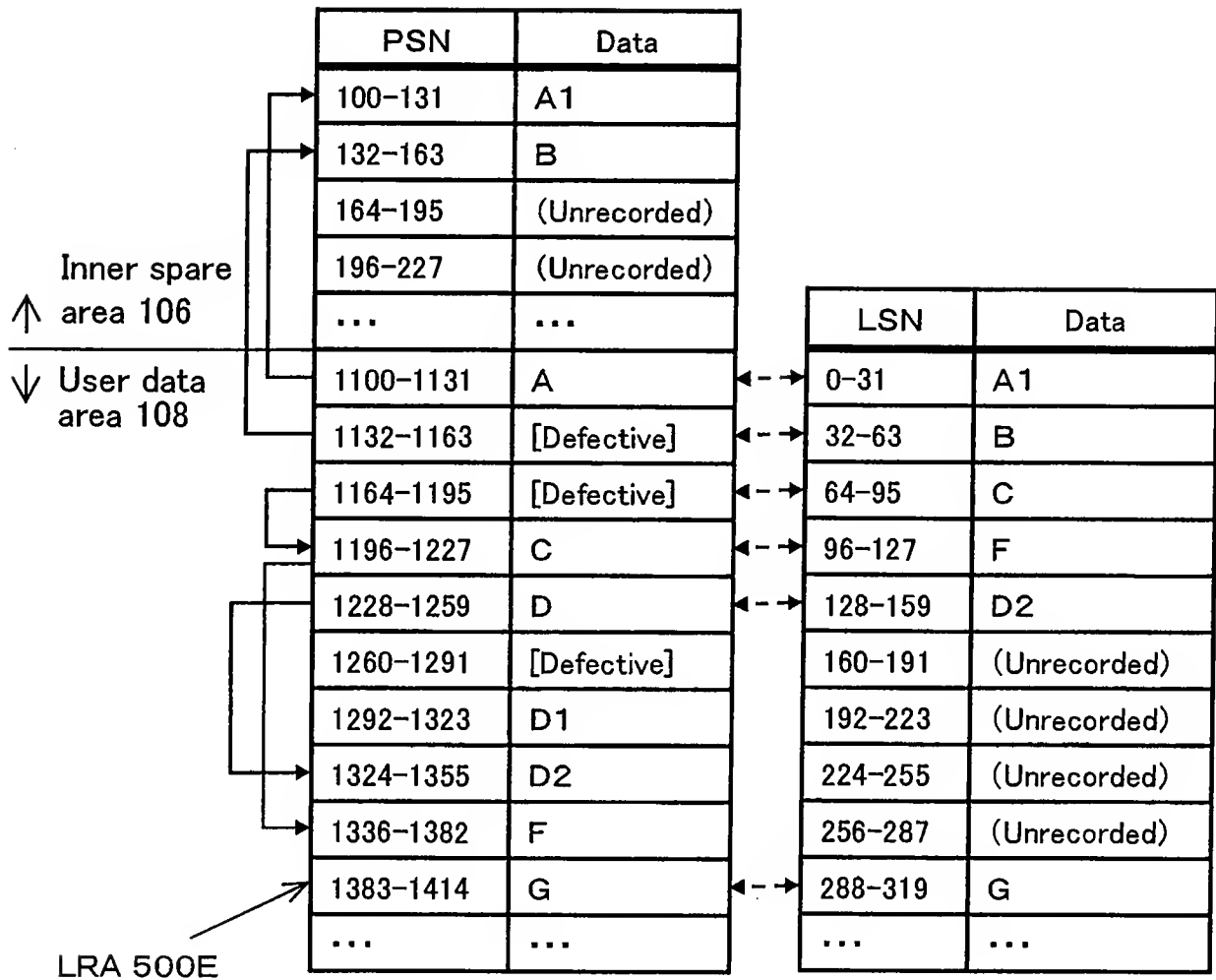


FIG. 17B

1000E

Status information			Original location	Replacement location	
0	0	00	1100	100	511
0	0	00	1132	132	512
0	1	00	1164	1196	513
0	1	00	1196	1336	518
0	1	00	1228	1324	514A
1	0	00	1260	0	515

FIG. 18

DFL entry 2010

Status 1 2011A	Defective cluster first PSN 2012	Status 2 2011B	Replacement cluster first PSN 2013
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FIG. 19A

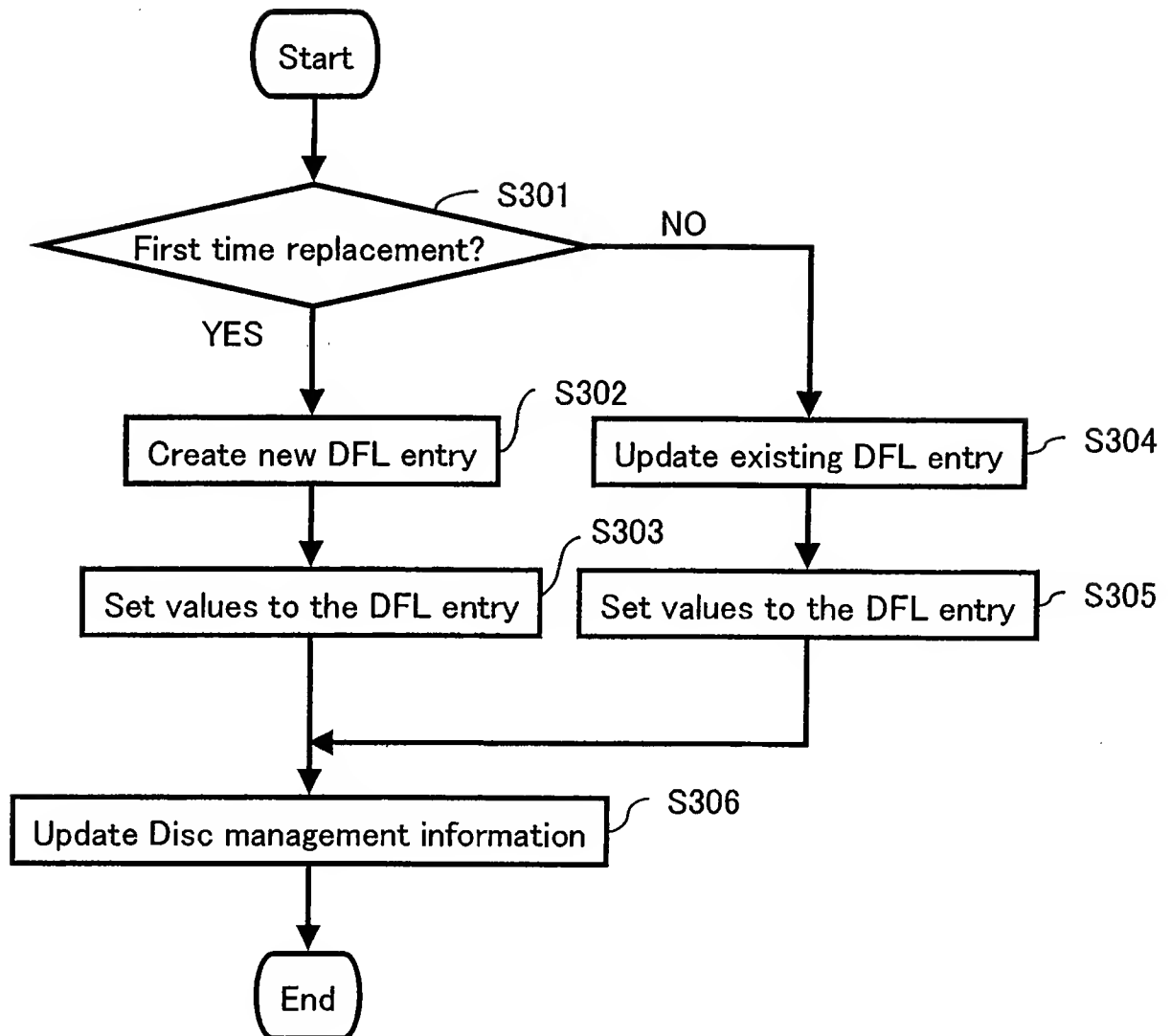


FIG.19B

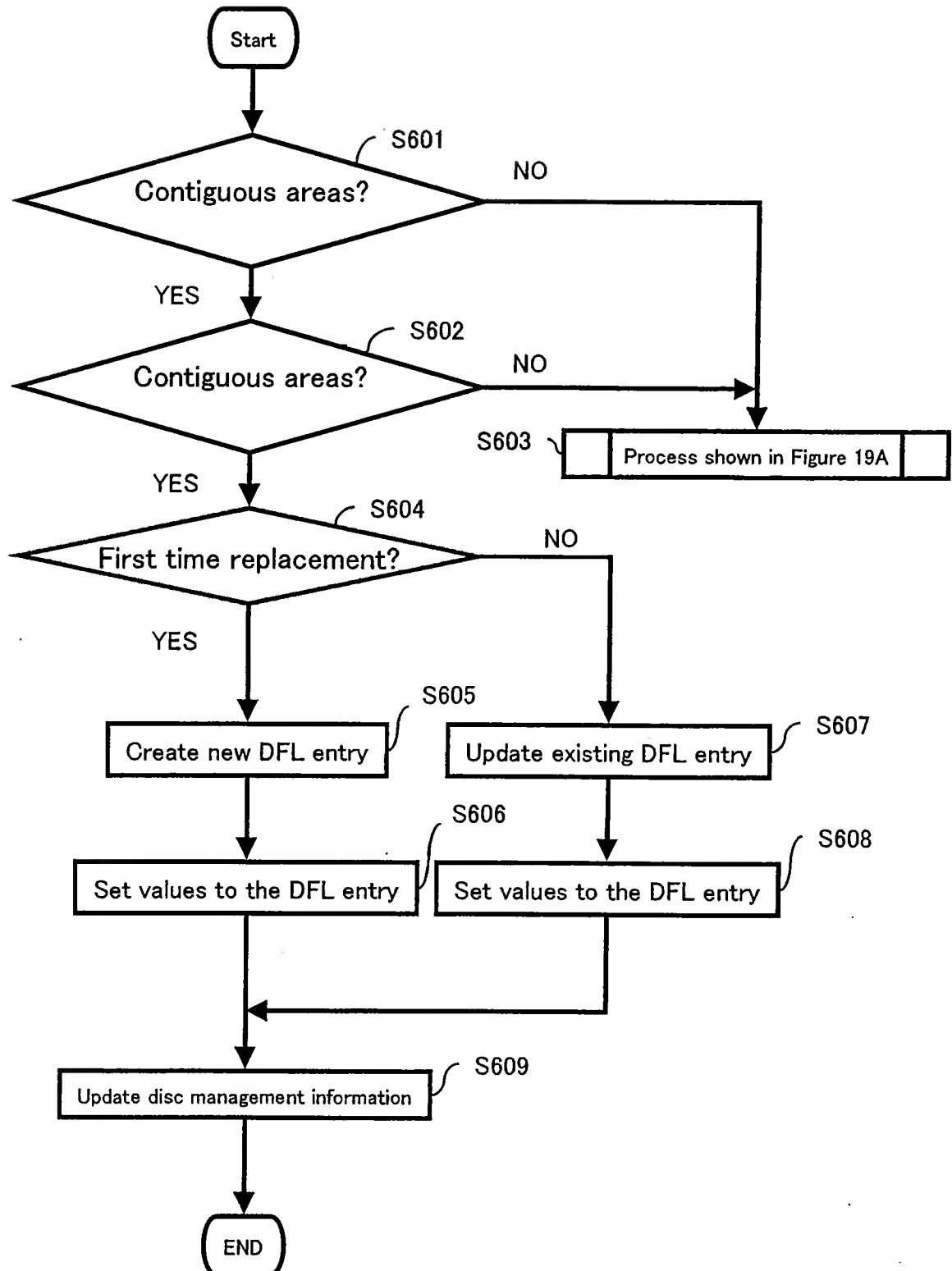


FIG. 20A

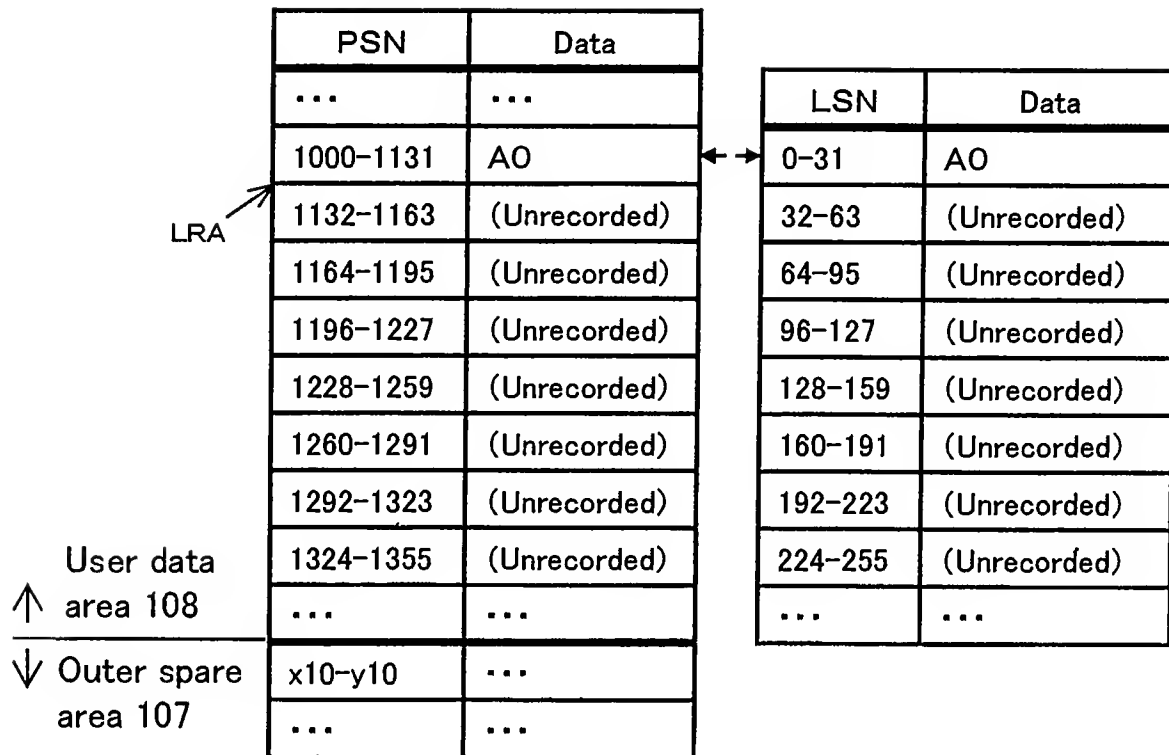


FIG. 20B

Header information 1001

FIG. 21A

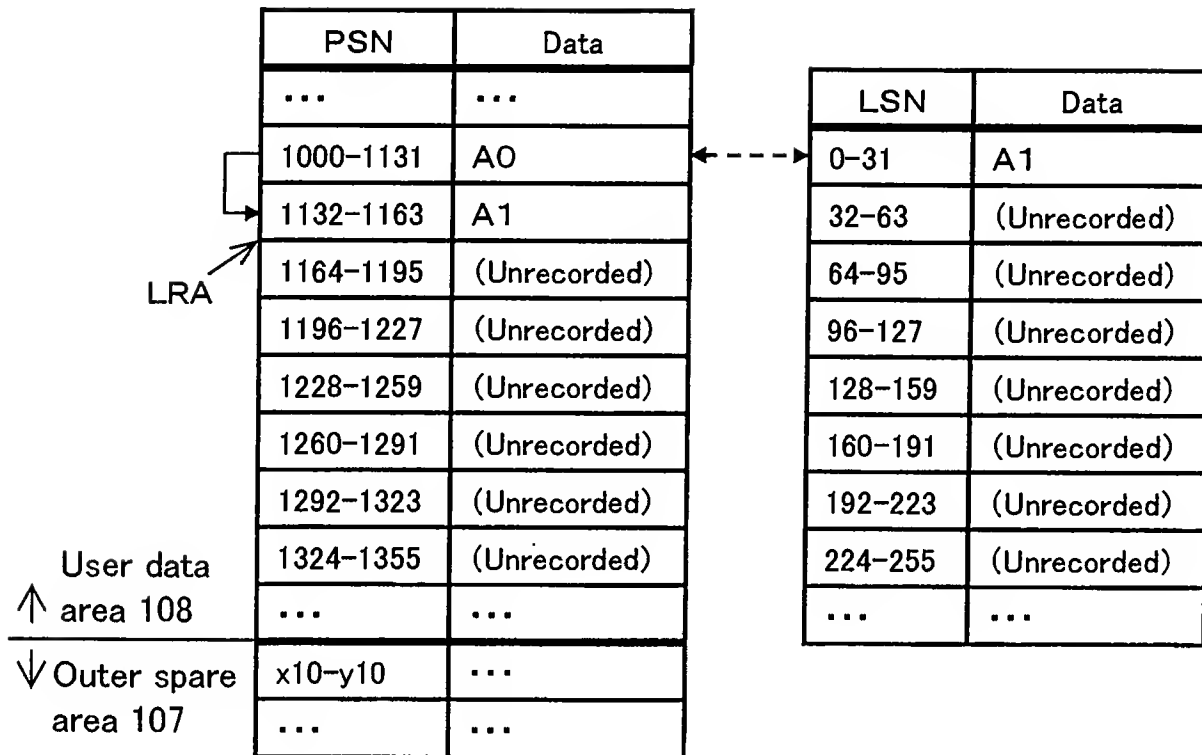


FIG. 21B

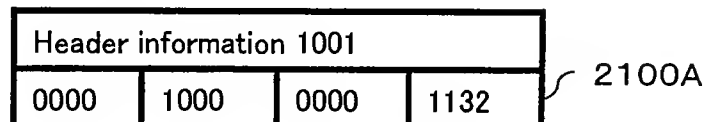


FIG. 22A

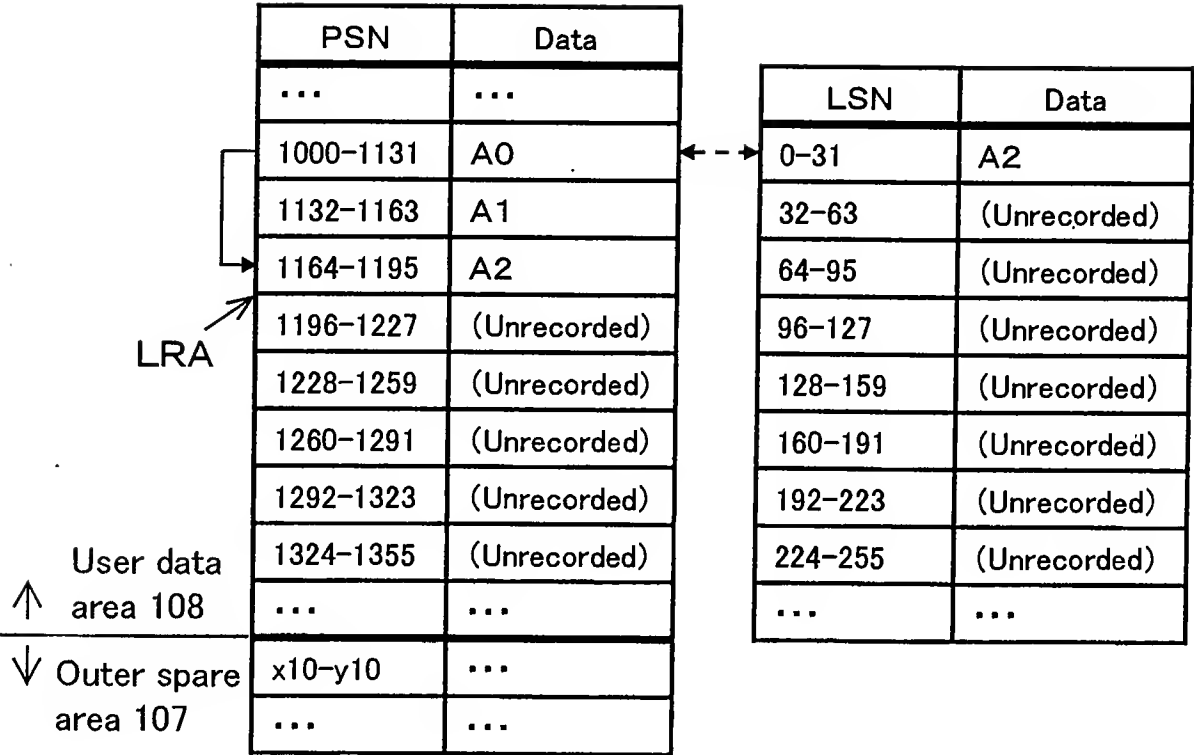


FIG. 22B

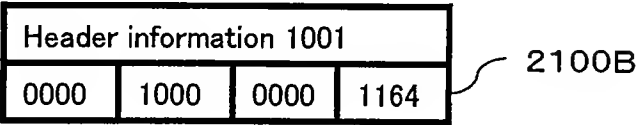


FIG. 23A

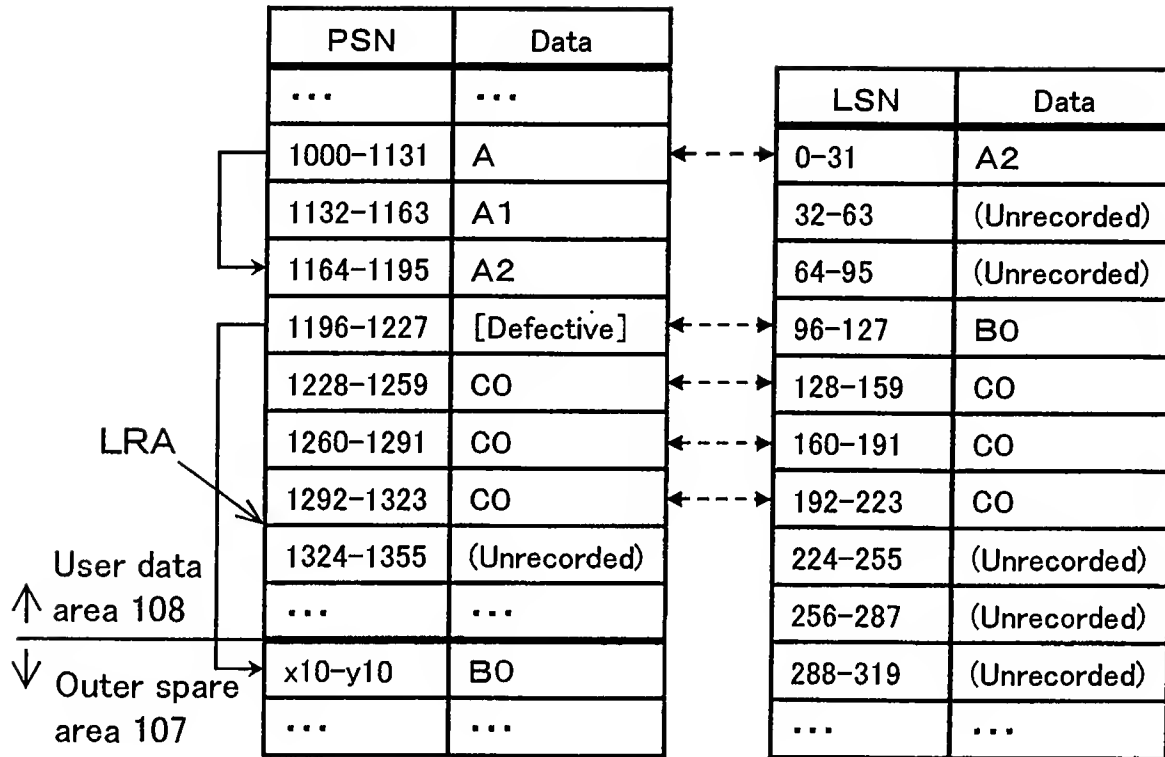


FIG. 23B

Header information 1001			
0000	1000	0000	1164
0000	1196	0000	x10

2100B

2101A

FIG. 24A

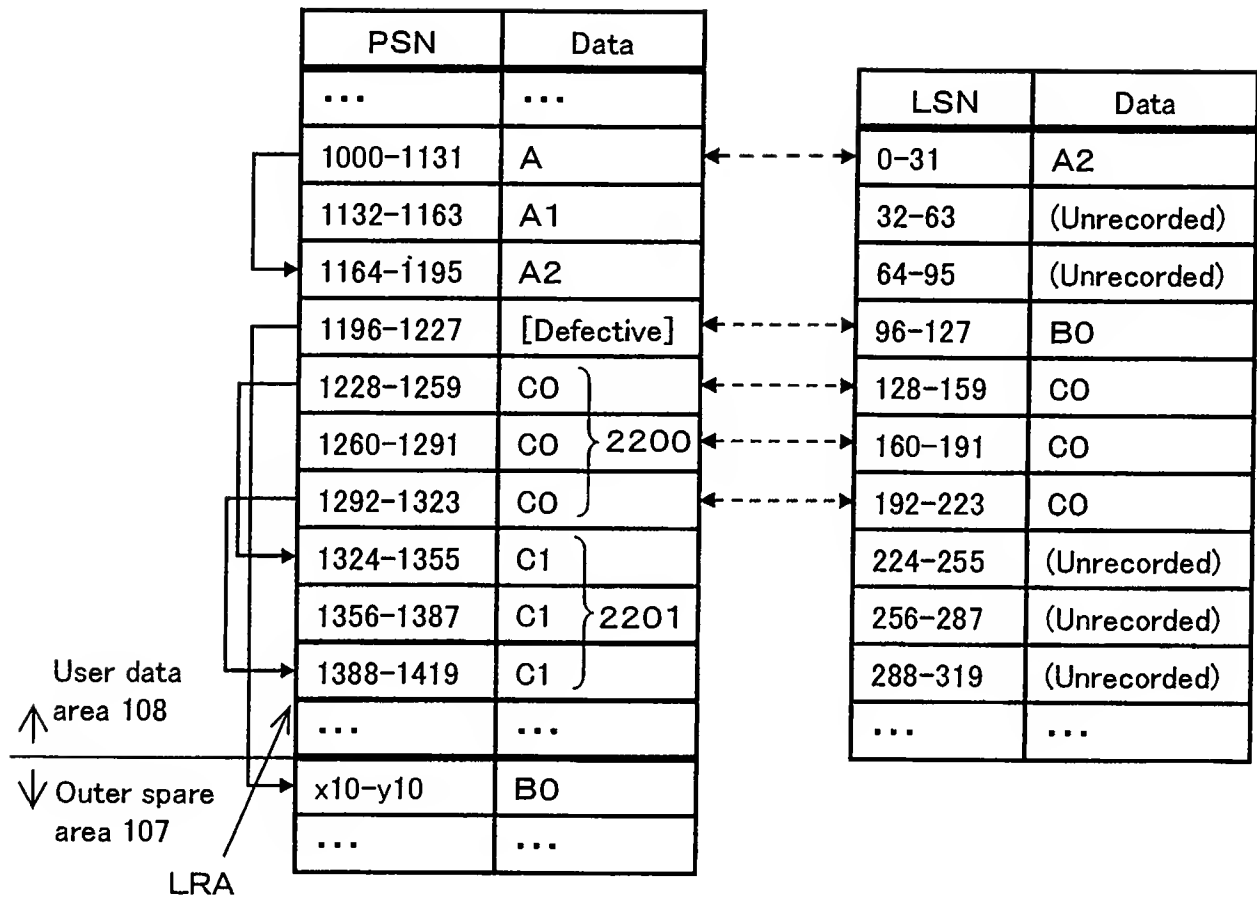


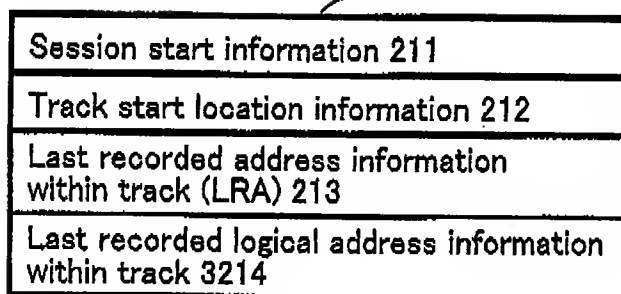
FIG. 24B

Header information 1001			
0000	1000	0000	1164
0000	1196	0000	x10
0000	1228	0001	1324
0000	1292	0010	1388

2100B
2101A
2102A
2103A

FIG. 25

3210



Session start information 211
Track start location information 212
Last recorded address information within track (LRA) 213
Last recorded logical address information within track 3214

FIG. 26A

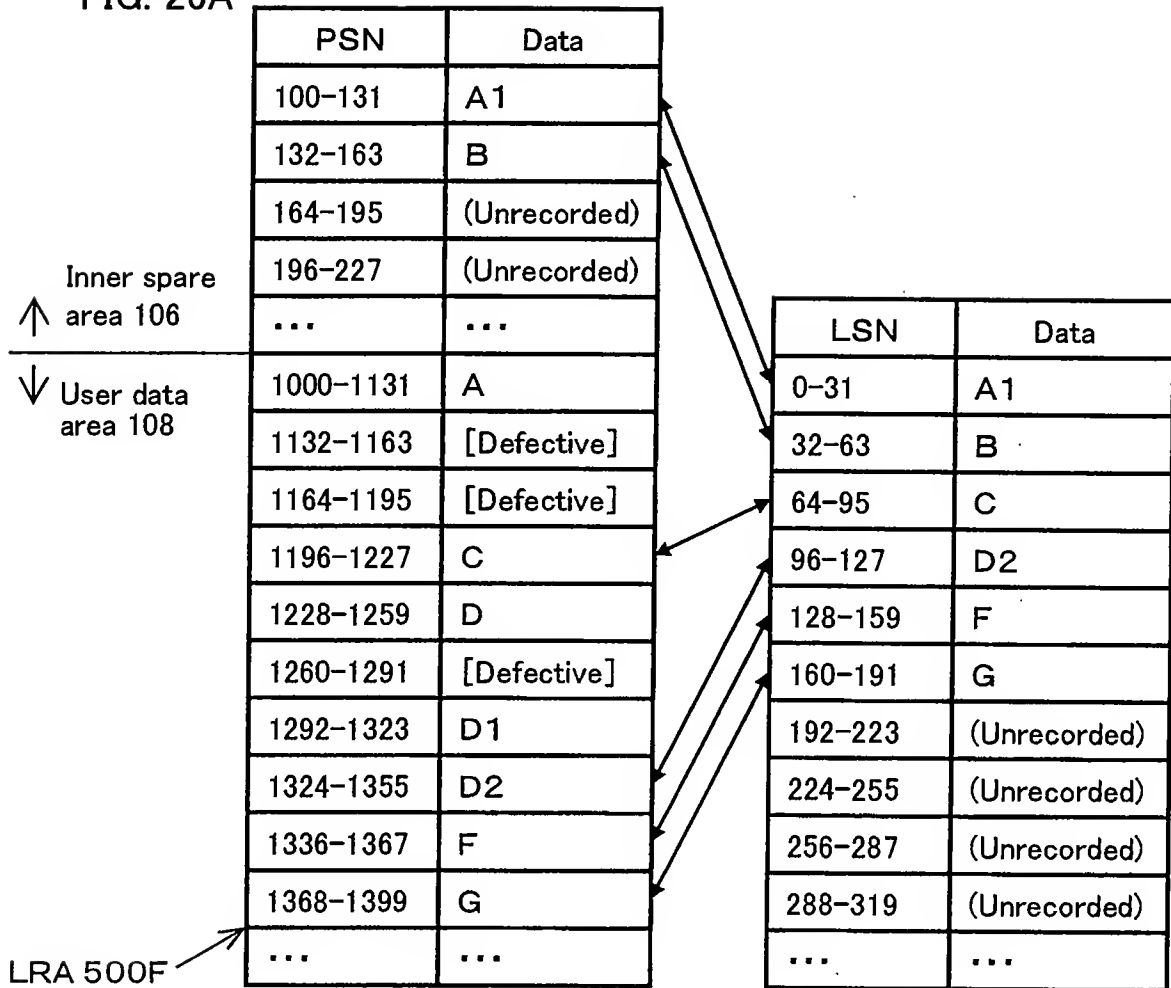


FIG. 26B

1000F

Status information			Original location	Replacement location
0	0	00	1000	100
0	0	00	1132	132
0	1	00	1164	1196
0	1	00	1196	1324
0	1	00	1228	1336
0	1	00	1260	1368
1	0	00	1132	0
1	0	00	1164	0
1	0	00	1260	0

521

522

523

524

525

526

530

531

532

FIG. 27

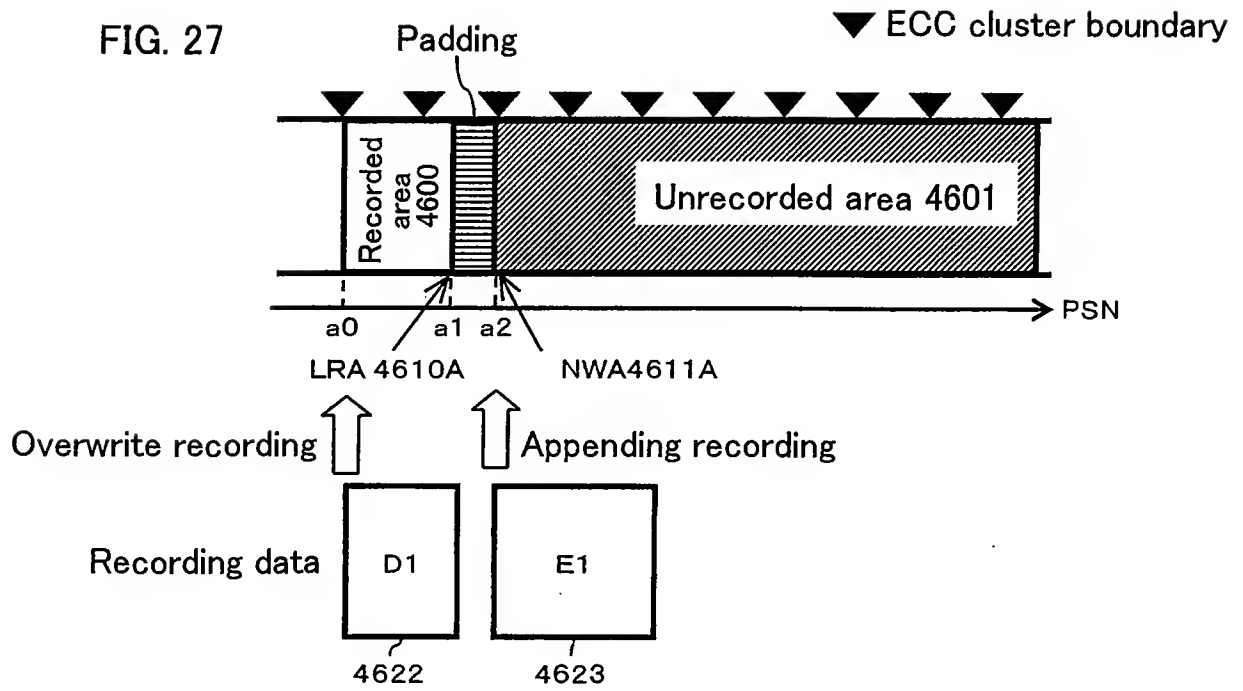


FIG. 28

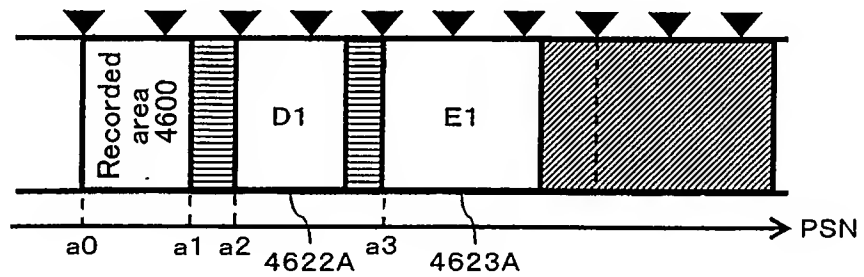


FIG. 29

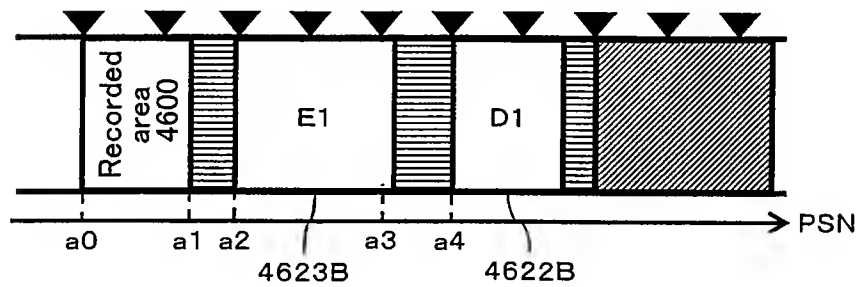


FIG. 30

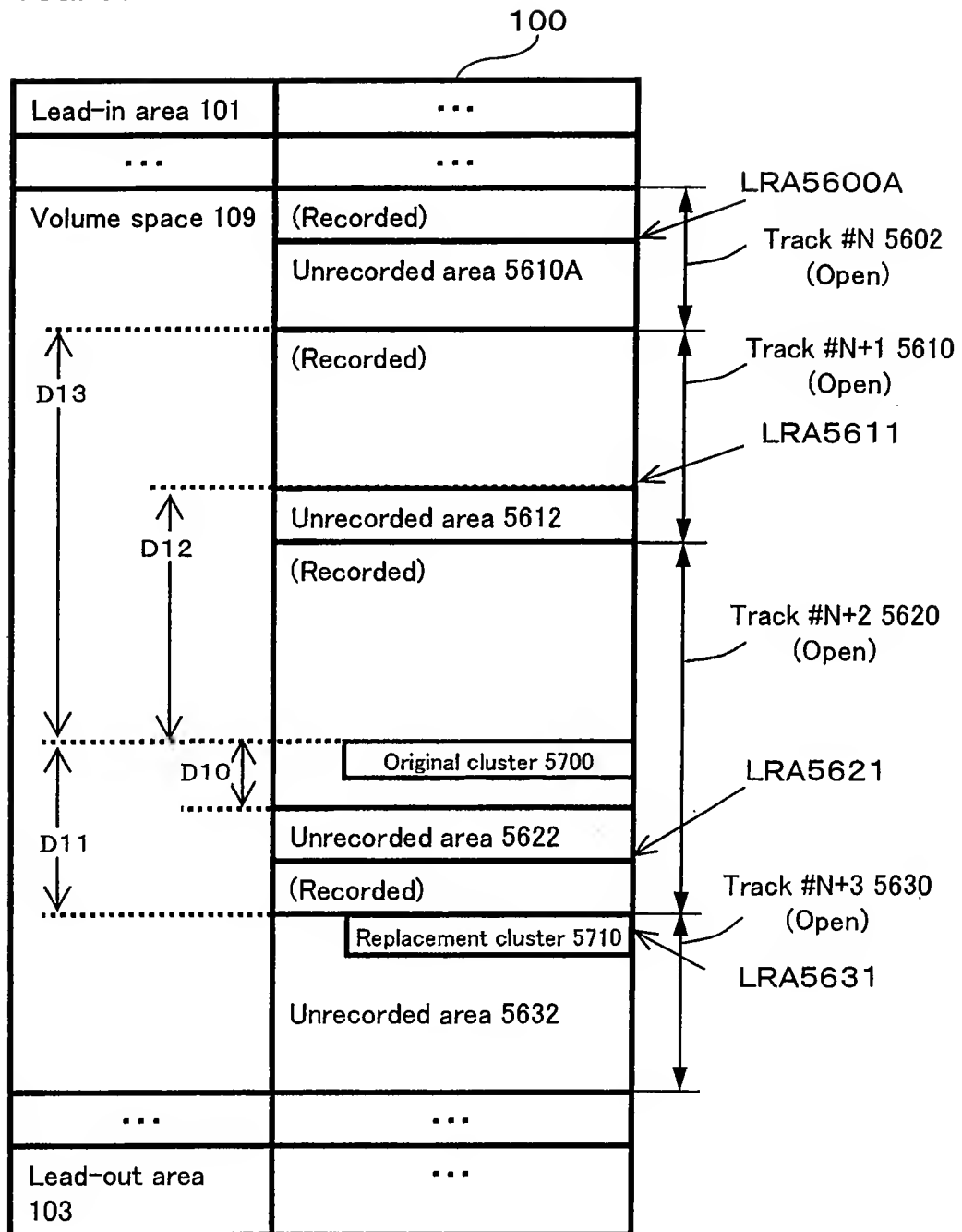


FIG. 31

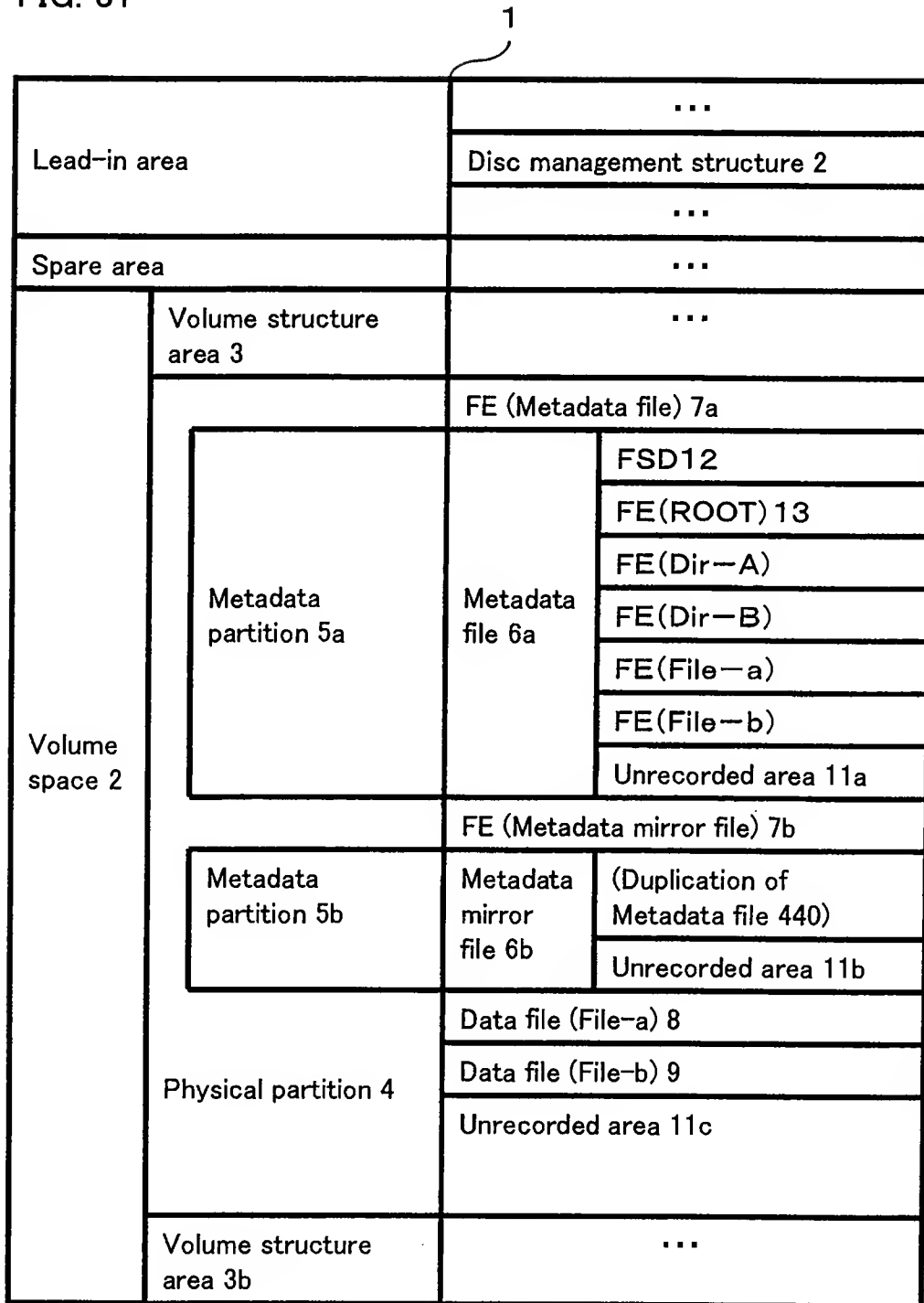


FIG. 32

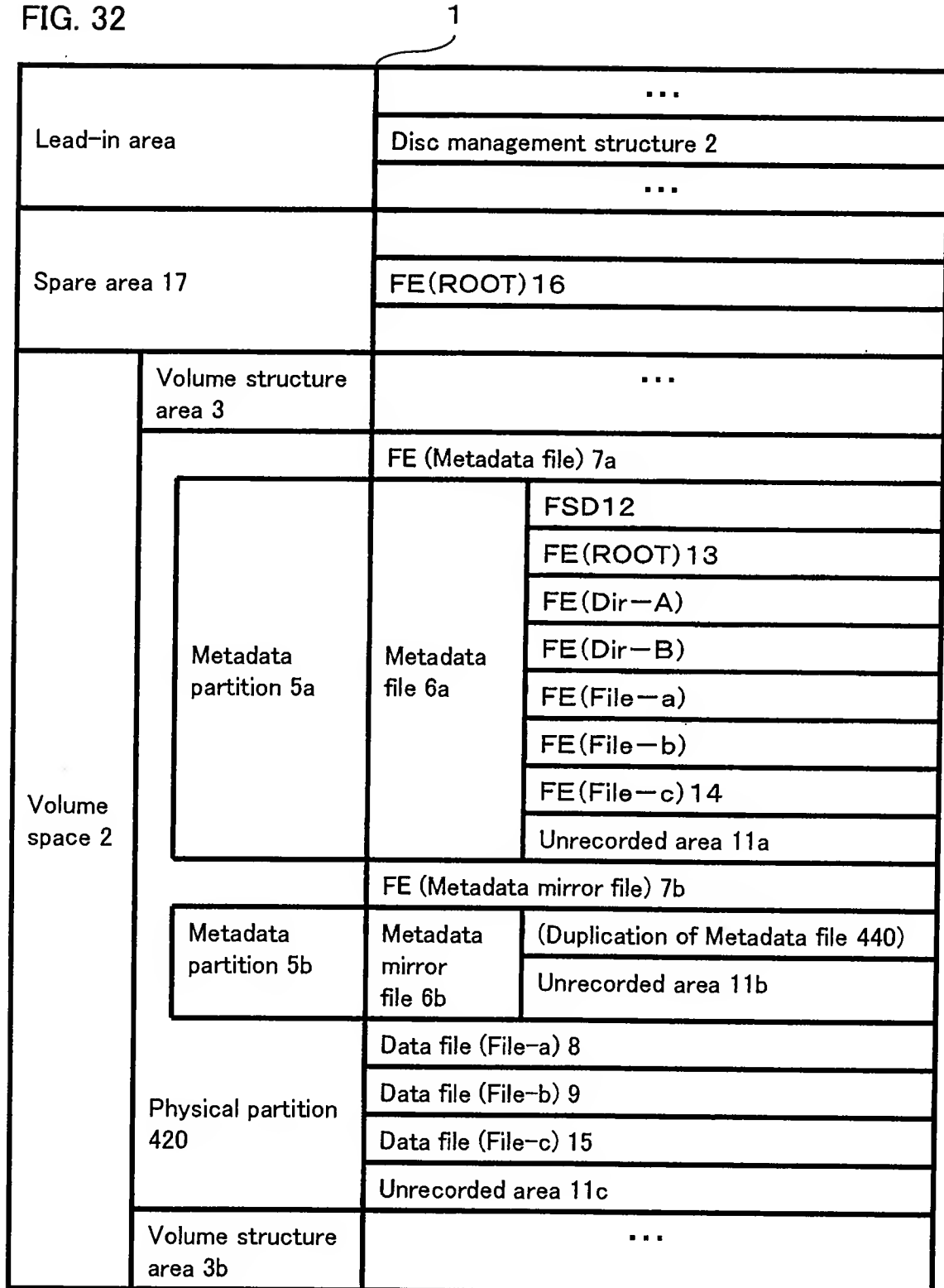


FIG. 33A

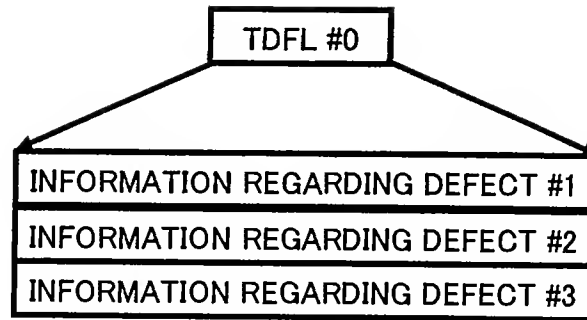


FIG. 33B

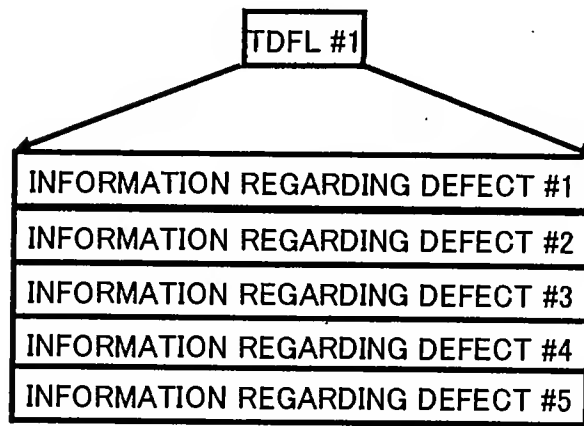


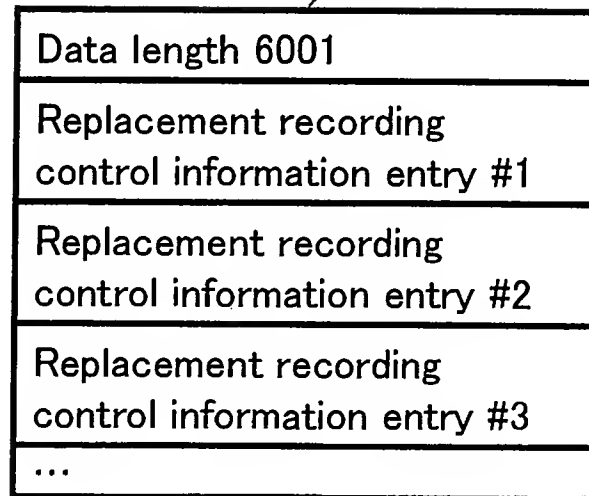
FIG.34

6100

General information 1101
Replacement management information list location information 1102
User area start location information 1103
User area end location information 1104
Spare area information 1105
Recording mode information 1106
Last recorded address information 1107
Disc management information area information 1107b
Spare area management information 1108
Session management information location information 1109
Space bitmap management information location information 1110
Replacement recording control information list 6000

FIG.35A

6000

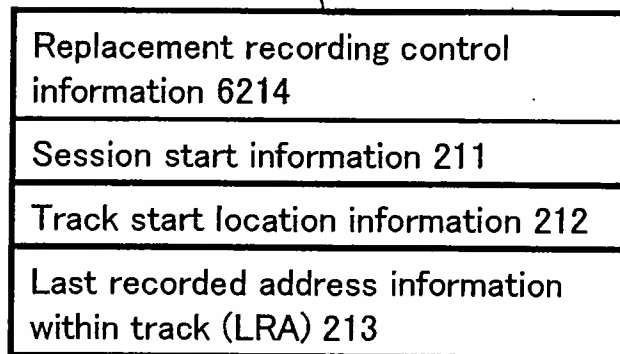


The diagram shows a vertical stack of four rectangular boxes. The top box contains the text 'Data length 6001'. The second box contains 'Replacement recording control information entry #1'. The third box contains 'Replacement recording control information entry #2'. The bottom box contains 'Replacement recording control information entry #3'. Below the bottom box, there are three dots '...' indicating further entries. A curved line points from the label '6000' to the top of the stack.

Data length 6001
Replacement recording control information entry #1
Replacement recording control information entry #2
Replacement recording control information entry #3
...

FIG.35B

6210



The diagram shows a vertical stack of four rectangular boxes. The top box contains the text 'Replacement recording control information 6214'. The second box contains 'Session start information 211'. The third box contains 'Track start location information 212'. The bottom box contains 'Last recorded address information within track (LRA) 213'. A curved line points from the label '6210' to the top of the stack.

Replacement recording control information 6214
Session start information 211
Track start location information 212
Last recorded address information within track (LRA) 213

FIG.36A

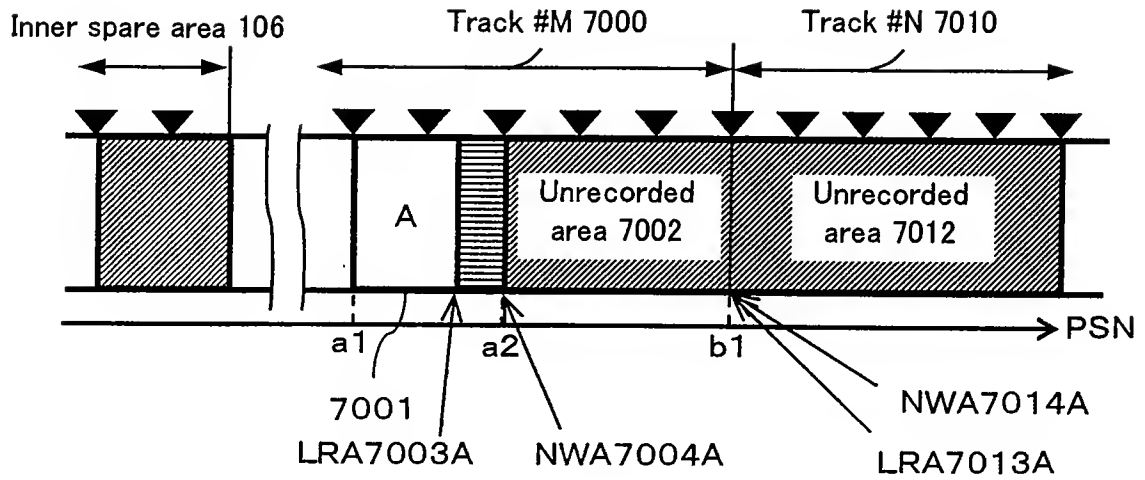


FIG.37A

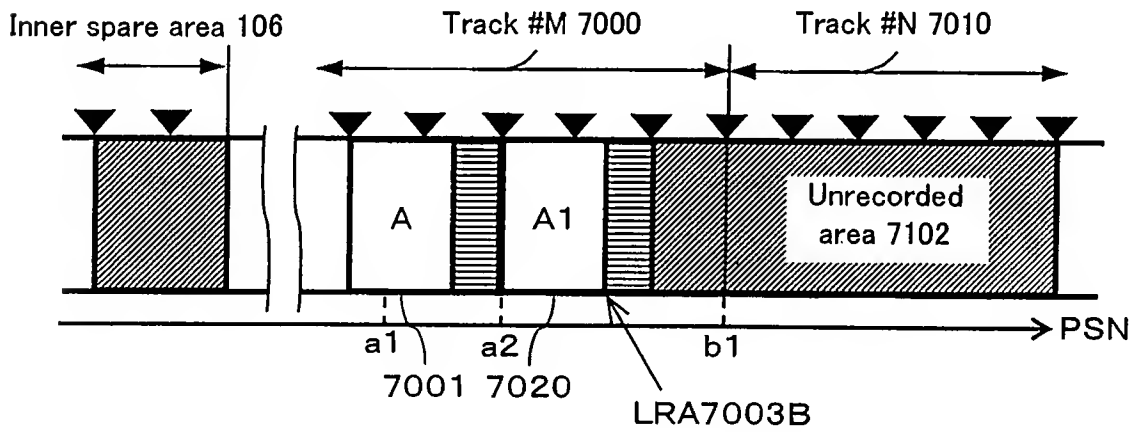


FIG.37B

Status information			Original location	Replacement location
...				
0	1	00	a1	a2
0	1	00	a2	0
...				

7030

7031

FIG.38A

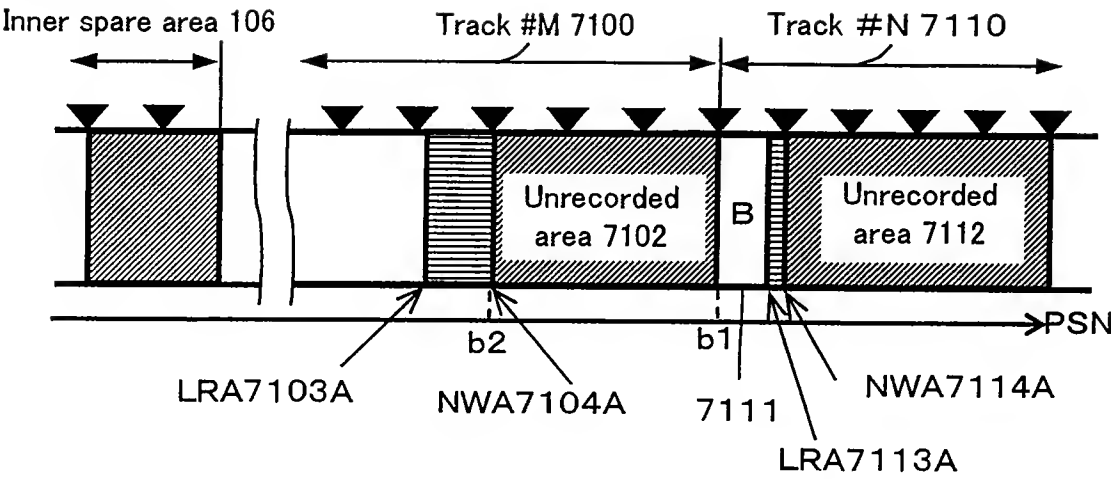


FIG.39A

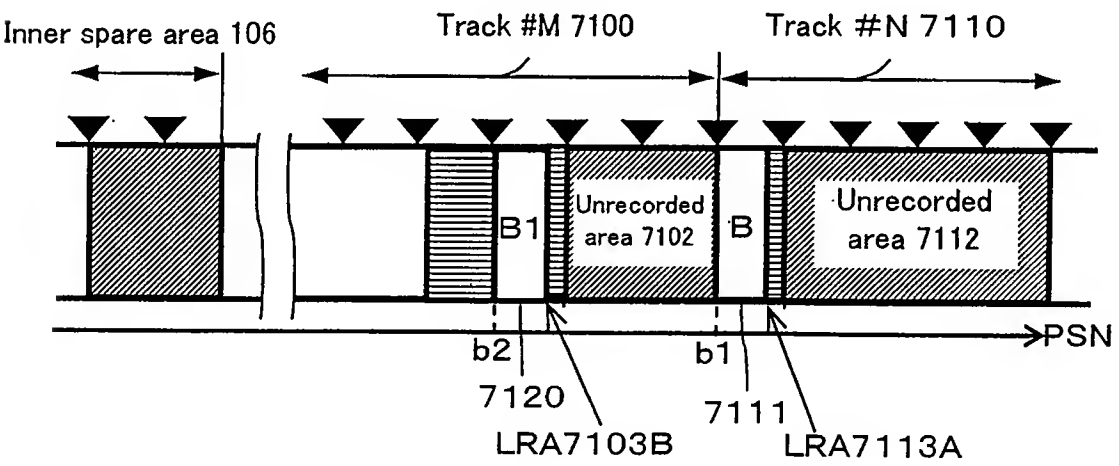


FIG.39B

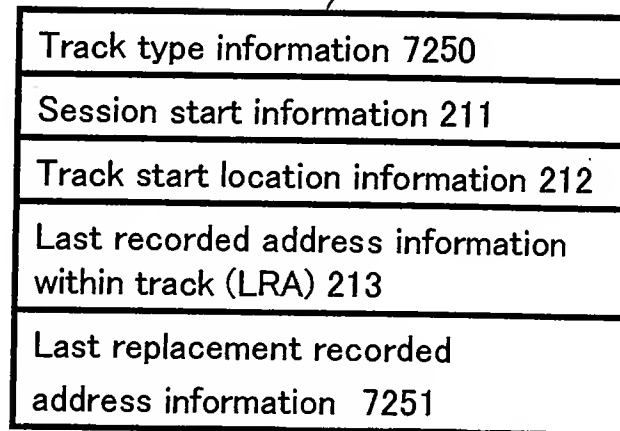
Status information			Original location	Replacement location
...				
0	1	00	b2	0
0	1	00	b1	b2
...				

7131

7130

FIG.40

7210



Track type information 7250
Session start information 211
Track start location information 212
Last recorded address information within track (LRA) 213
Last replacement recorded address information 7251

FIG.41A

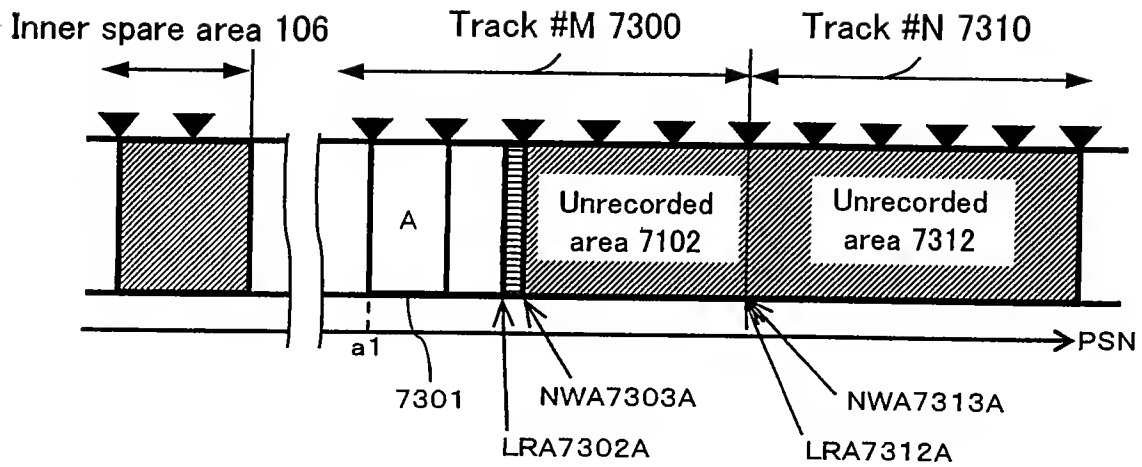


FIG.42A

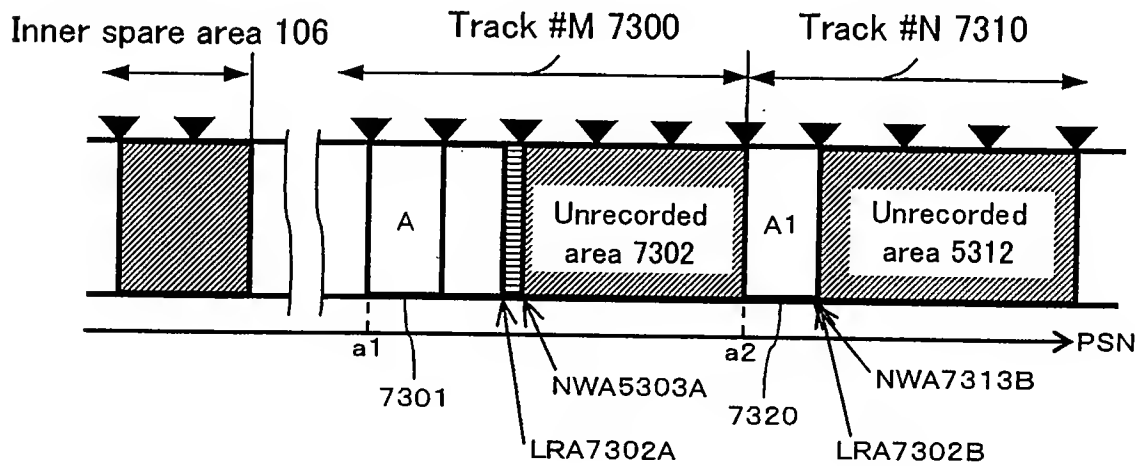


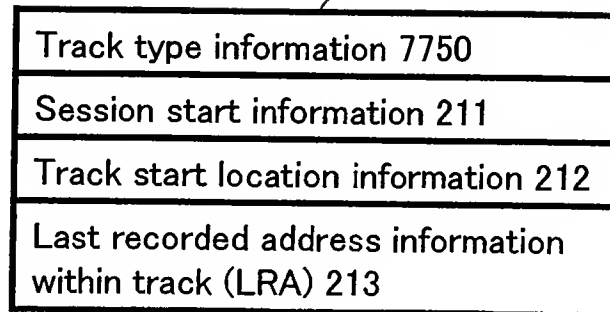
FIG.42B

Status information			Original location	Replacement location
0	0	00	a1	a2

7330

FIG.43

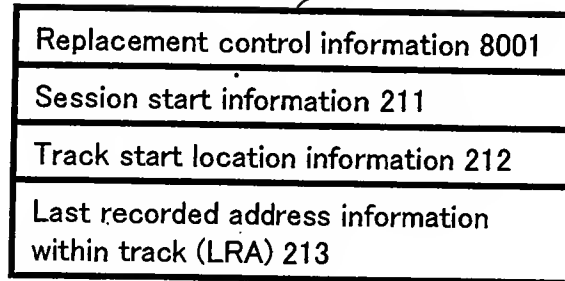
7410



Track type information 7750
Session start information 211
Track start location information 212
Last recorded address information within track (LRA) 213

FIG.44

8210



The diagram shows a rectangular box labeled 8210, which is divided into four horizontal sections. A curved line points from the label 8210 to the top section of the box.

Replacement control information 8001
Session start information 211
Track start location information 212
Last recorded address information within track (LRA) 213